

State of California  
The Resources Agency

DEPARTMENT OF WATER RESOURCES  
Division of Operations and Maintenance

# STATE WATER PROJECT OPERATIONS DATA

For the month of:  
**October 1996**

**Pete Wilson**  
Governor  
State of California

**Douglas P. Wheeler**  
Secretary for Resources  
The Resources Agency

**David N. Kennedy**  
Director  
Department of Water Resources

State of California  
Resources Agency

**Department of Water Resources  
Division of Operations and Maintenance**

**State Water Project  
Operations Data**

for the Month of October 1996

## **Table of Contents**

### **Monthly Highlights**

#### **Oroville Field Division Water Operations**

**Table**

- 1 Antelope Lake, Daily Operation
- 2 Frenchman Lake, Daily Operation
- 3 Lake Davis, Daily Operation
- 4 Lake Oroville, Daily Operation
- 5 Thermalito Forebay, Including Diversion Pool and Power Canal, Daily Operation
- 6 Thermalito Afterbay, Daily Operation
- 7 Oroville-Thermalito Complex, Water Temperature Data

#### **Delta Field Division Water Operations**

**Table**

- 8 Aqueduct Operation, Delta Field Division
- 9 Delta Field Division Plant Data
- 10 Clifton Court Forebay, Daily Operation of Gates
- 11 Governor Edmund G. Brown California Aqueduct, Delta Field Division, Monthly Deliveries
- 12 South Bay Aqueduct, Delta Field Division, Monthly Deliveries
- 13 Lake Del Valle, Daily Operation

#### **San Luis Field Division Water Operations**

**Table**

- 14 Consolidated State-Federal O'Neill Forebay, Daily Operations
- 15 Consolidated State-Federal San Luis Reservoir, Daily Operations
- 16 San Luis Field Division Plant Data
- 17 Consolidated State-Federal Los Banos Reservoir, Daily Operations
- 18 Consolidated State-Federal Little Panoche Reservoir, Daily Operations
- 19a Governor Edmund G. Brown California Aqueduct, San Luis Field Division, Monthly Deliveries
- 19b Governor Edmund G. Brown California Aqueduct, San Luis Field Division, Monthly Deliveries
- 20 Consolidated State-Federal San Luis Canal, Daily Operations

#### **San Joaquin Field Division Water Operations**

**Table**

- 21 San Joaquin Field Division Plant Data
- 22a Governor Edmund G. Brown California Aqueduct, San Joaquin Field Division, Monthly Deliveries
- 22b Governor Edmund G. Brown California Aqueduct, San Joaquin Field Division, Monthly Deliveries
- 22c Governor Edmund G. Brown California Aqueduct, San Joaquin Field Division, Monthly Deliveries
- 23 Governor Edmund G. Brown California Aqueduct, San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

## **Southern Field Division Water Operations**

### **Table**

- 24 Southern Field Division Plant Data
- 25 Pyramid Lake, Daily Operation
- 26 Elderberry Forebay, Daily Operation
- 27 Castaic Lake, Daily Operation
- 28 Governor Edmund G. Brown California Aqueduct, Southern Field Division, Monthly Deliveries (West Branch)
- 29 Silverwood Lake, Daily Operation
- 30 Lake Perris, Daily Operation
- 31a Governor Edmund G. Brown California Aqueduct, Southern Field Division, Monthly Deliveries (East Branch)
- 31b Governor Edmund G. Brown California Aqueduct, Southern Field Division, Monthly Deliveries (East Branch)

## **Water Quality Operations**

### **Table**

- 32 Water Quality at Selected SWP Locations
- 33 Water Quality at Selected Delta Stations
- 34 Pesticides, Herbicides, and Other Organic Substances Detected in the SWP

## **Energy Operations**

### **Table**

- 35 Oroville and Delta Field Divisions Energy Data
- 36 San Luis Field Division Energy Data
- 37 San Joaquin Field Division Energy Data
- 38 Southern Field Division Energy Data

## **MONTHLY HIGHLIGHTS**

The following highlights are activities or actions that impacted State Water Project operations during the month of October 1996.

This is the first month of water year 1996-97. Northern Sierra precipitation was estimated at 2.4 inches, about 75 percent of the monthly average. Rainstorms during the last week of October brought above seasonal normal amounts to the Central Coast, San Joaquin Valley and South Coast regions. Runoff was about three-fourths of average for October.

Reservoir storage was about 120 percent of average. The total storage in California's 155 major reservoirs dropped about 1 million AF during October compared to a normal decline of 0.9 MAF. Total storage in major SWP reservoirs was about 4.1 MAF on October 31, about 400,000 AF less than the storage at this time in 1995. October 31 storage at Lake Oroville was about 2.7 MAF compared to 2.3 MAF at this time last year. The State's share of San Luis Reservoir storage was about 853,000 AF compared to 1.1 MAF at this time last year.

The combined storage in our southern reservoirs was 615,000 AF on October 31 compared with 637,000 AF at this time last year. Southern reservoir storage was affected by construction of the new intake structure to the San Bernardino Tunnel at Silverwood Lake. This work will require further decreases in Silverwood Lake storage from the first stage drawdown level of 38,000 AF to 10,000 AF by the end of 1996. The second stage drawdown began on October 28. It is projected that the lake will begin to be refilled in March 1997.

SWP water deliveries for 1996 through October 31 were 2.2 MAF representing a combination of annual entitlement, carryover, interruptible, and exchange waters. This is 500,000 AF more than delivered during the same period in 1995.

The SWP began pumping about 4,000 AF per day of "make-up" water for the CVP on October 13. The CVP will receive 130,000 AF of make-up water to offset export reductions made in April and May this year to comply with special fishery requirements.

A fish spawning evaluation study with high flow through the low flow segment of the Feather River started on October 10. Flows through the low flow segment were increased from 600 cfs to 1600 cfs. During the study period, Environmental Services Office will be monitoring the effects of the higher flow on the salmon spawn. The additional 1,000 cfs of flow through the low flow segment will be maintained until January 16, 1997. A corresponding reduction was made in the Thermalito Afterbay River Outlet release to maintain the Feather River flow at 2,400 cfs.

On October 14, Pools 52 to 55 were taken out of service for scheduled repairs to the canal lining between Mile Markers 343 and 345.

**Table 1. Antelope Lake**

Daily Operation  
(in acre-feet except as noted)

Capacity: 22,566 ac-ft

**October 1996**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in CFS							Computed Inflow 1/	
				Regulated Release				Spill	Estimated Evaporation And Seepage 1/	Total Outflow 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right	Total Regulated Release					
Sep 30	4998.69	19,601										
1	4998.65	19,567	-34	20	0	0	20	0				
2	4998.61	19,532	-35	20	0	0	20	0				
3	4998.56	19,490	-42	20	0	0	20	0				
4	4998.51	19,447	-43	20	0	0	20	0				
5	4998.47	19,413	-34	20	0	0	20	0				
6	4998.42	19,370	-43	20	0	0	20	0				
7	4998.38	19,336	-34	20	0	0	20	0				
8	4998.33	19,293	-43	20	0	0	20	0				
9	4998.29	19,259	-34	20	0	0	20	0				
10	4998.24	19,217	-42	20	0	0	20	0				
11	4998.19	19,175	-42	20	0	0	20	0				
12	4998.14	19,132	-43	20	0	0	20	0				
13	4998.10	19,098	-34	20	0	0	20	0				
14	4998.08	19,082	-16	20	0	0	20	0				
15	4998.03	19,039	-43	20	0	0	20	0				
16	4997.96	18,980	-59	20	0	0	20	0				
17	4997.91	18,938	-42	20	0	0	20	0				
18	4997.94	18,963	25	20	0	0	20	0				
19	4997.88	18,913	-50	20	0	0	20	0				
20	4997.85	18,888	-25	20	0	0	20	0				
21	4997.83	18,871	-17	20	0	0	20	0				
22	4997.79	18,837	-34	20	0	0	20	0				
23	4997.77	18,821	-16	20	0	0	20	0				
24	4997.77	18,821	0	20	0	0	20	0				
25	4997.72	18,779	-42	20	0	0	20	0				
26	4997.67	18,737	-42	20	0	0	20	0				
27	4997.68	18,745	8	20	0	0	20	0				
28	4997.65	18,720	-25	20	0	0	20	0				
29	4997.61	18,687	-33	20	0	0	20	0				
30	4997.59	18,670	-17	20	0	0	20	0				
31	4997.56	18,645	-25	20	0	0	20	0				
TOTAL CFS-DAYS				---	620	0	0	620	0	128	748	266
TOTAL AC-FT.				-956	1,230	0	0	1,230	0	253	1,483	527

1/ Values not available on a daily basis.

**Table 2. Frenchman Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

**October 1996**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in CFS							Computed Inflow	
				Regulated Release				Spill	Estimated Evaporation And Seepage 1/	Total Outflow 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right	Total Regulated Release					
Sep 30	5579.73	43,348										
1	5579.73	43,348	0	0	15	0	15	0				
2	5579.70	43,308	-40	0	15	0	15	0				
3	5579.67	43,267	-41	0	15	0	15	0				
4	5579.63	43,213	-54	0	13	0	13	0				
5	5579.62	43,199	-14	0	12	0	12	0				
6	5579.61	43,186	-13	0	12	0	12	0				
7	5579.58	43,145	-41	0	12	0	12	0				
8	5579.58	43,145	0	0	12	0	12	0				
9	5579.54	43,091	-54	0	12	0	12	0				
10	5579.50	43,037	-54	0	12	0	12	0				
11	5579.49	43,023	-14	0	12	0	12	0				
12	5579.43	42,942	-81	0	12	0	12	0				
13	5579.42	42,929	-13	0	12	0	12	0				
14	5579.39	42,888	-41	0	12	0	12	0				
15	5579.37	42,827	-61	0	10	0	10	0				
16	5579.32	42,794	-33	0	9	0	9	0				
17	5579.31	42,780	-14	0	6	0	6	0				
18	5579.33	42,807	27	0	5	0	5	0				
19	5579.32	42,794	-13	0	5	0	5	0				
20	5579.31	42,780	-14	0	5	0	5	0				
21	5579.29	42,754	-26	0	5	0	5	0				
22	5579.28	42,740	-14	1	3	0	4	0				
23	5579.27	42,727	-13	2	0	0	2	0				
24	5579.29	42,754	27	2	0	0	2	0				
25	5579.31	42,780	26	2	0	0	2	0				
26	5579.27	42,727	-53	2	0	0	2	0				
27	5579.26	42,713	-14	2	0	0	2	0				
28	5579.25	42,700	-13	2	0	0	2	0				
29	5579.25	42,700	0	2	0	0	2	0				
30	5579.25	42,700	0	2	0	0	2	0				
31	5579.25	42,700	0	2	0	0	2	0				
TOTAL CFS-DAYS				- - -	19	226	0	245	0	238	483	156
TOTAL AC-FT.				-648	38	448	0	486	0	472	958	310

1/ Values not available on a daily basis.

**Table 3. Lake Davis**

Daily Operation  
(in acre-feet except as noted)

Capacity: 84,371 ac-ft

**October 1996**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in CFS							Computed Inflow	
				Regulated Release				Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right	Total Regulated Release					
Sep 30	5771.24	69,960										
1	5771.22	69,888	-72	16		3		0				
2	5771.21	69,851	-37	20		1		0				
3	5771.20	69,815	-36	20		0		0				
4	5771.18	69,742	-73	20		0		0				
5	5771.15	69,633	-109	20		0		0				
6	5771.14	69,597	-36	20		0		0				
7	5771.12	69,524	-73	20		0		0				
8	5771.10	69,451	-73	20		0		0				
9	5771.09	69,415	-36	20		0		0				
10	5771.06	69,306	-109	20		0		0				
11	5771.02	69,161	-145	20		0		0				
12	5770.99	69,053	-108	20		0		0				
13	5770.96	68,944	-109	20		0		0				
14	5770.93	68,836	-108	20		0		0				
15	5770.91	68,764	-72	20		0		0				
16	5770.86	68,584	-180	20		0		0				
17	5770.83	68,476	-108	20		0		0				
18	5770.85	68,548	72	20		0		0				
19	5770.81	68,404	-144	20		0		0				
20	5770.78	68,296	-108	20		0		0				
21	5770.75	68,188	-108	20		0		0				
22	5770.73	68,116	-72	20		0		0				
23	5770.72	68,080	-36	20		0		0				
24	5770.78	68,296	216	20		0		0				
25	5770.77	68,260	-36	20		0		0				
26	5770.72	68,080	-180	20		0		0				
27	5770.70	68,008	-72	20		0		0				
28	5770.70	68,008	0	20		0		0				
29	5770.69	67,973	-35	20		0		0				
30	5770.69	67,973	0	20		0		0				
31	5770.68	67,937	-36	20		0		0				
TOTAL CFS-DAYS				---	616	15	4	635	0	492	1,127	107
TOTAL AC-FT.				-2,023	1,222	29	8	1,259	0	976	2,235	212

1/ Values not available on a daily basis.

**Table 4. Lake Oroville**

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537,580 ac-ft

**October 1996**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow						Inflow	
				Hyatt Generation 1/	Palermo Canal	Spillway Leakage 2/	Evaporation 3/	Spill	Total Outflow	Hyatt Pumpback	Computed Inflow 4/
Sep 30	844.52	2,735,516									
1	844.52	2,735,516	0	3,322	33	55	179	0	3,589	0	3,589
2	844.44	2,734,463	-1,053	5,275	33	53	170	0	5,531	0	4,478
3	844.43	2,734,331	-132	4,818	33	51	132	0	5,034	0	4,902
4	844.34	2,733,147	-1,184	5,787	33	49	197	0	6,066	0	4,882
5	844.24	2,731,831	-1,316	6,309	33	47	244	0	6,633	0	5,317
6	844.21	2,731,436	-395	5,819	33	45	291	0	6,188	0	5,793
7	843.99	2,728,543	-2,893	6,187	33	44	282	0	6,546	0	3,653
8	843.92	2,727,623	-920	6,735	34	43	273	0	7,085	0	6,165
9	843.78	2,725,784	-1,839	5,368	34	41	282	0	5,725	0	3,886
10	843.74	2,725,258	-526	5,660	34	39	216	0	5,949	0	5,423
11	843.61	2,723,551	-1,707	6,476	34	38	179	0	6,727	0	5,020
12	843.48	2,721,845	-1,706	7,118	34	37	169	0	7,358	0	5,652
13	843.19	2,718,041	-3,804	7,175	34	35	150	0	7,394	0	3,590
14	842.90	2,714,242	-3,799	7,197	34	33	206	0	7,470	0	3,671
15	842.69	2,711,492	-2,750	6,935	34	31	188	0	7,188	0	4,438
16	842.35	2,707,045	-4,447	8,130	34	29	188	0	8,381	0	3,934
17	842.10	2,703,779	-3,266	8,511	32	28	178	0	8,749	0	5,483
18	841.86	2,700,645	-3,134	7,378	28	27	159	0	7,592	0	4,458
19	841.79	2,699,732	-913	7,380	26	25	47	0	7,478	0	6,565
20	841.56	2,696,732	-3,000	7,026	26	24	131	0	7,207	0	4,207
21	841.45	2,695,298	-1,434	7,214	22	22	206	0	7,464	0	6,030
22	841.26	2,692,823	-2,475	7,137	20	21	149	0	7,327	0	4,852
23	841.13	2,691,130	-1,693	7,497	20	20	140	0	7,677	0	5,984
24	841.06	2,690,219	-911	7,516	16	18	121	0	7,671	0	6,760
25	840.96	2,688,917	-1,302	7,351	12	16	37	0	7,416	0	6,114
26	840.76	2,686,316	-2,601	7,449	12	15	47	0	7,523	0	4,922
27	840.64	2,684,756	-1,560	7,222	12	14	196	0	7,444	0	5,884
28	840.51	2,683,067	-1,689	6,980	10	12	233	0	7,235	0	5,546
29	840.71	2,685,666	2,599	6,487	10	11	84	0	6,592	0	9,191
30	840.70	2,685,536	-130	6,432	8	10	65	0	6,515	0	6,385
31	840.55	2,683,587	-1,949	7,074	6	8	0	0	7,088	0	5,139
<b>TOTALS</b>		-51,929	206,965	797	941	5,139	0	213,842	0	161,913	

1/ Includes bypass flows

2/ Only occurs when Lake water elevation is greater than or equal to 813.00 and there is no spill.

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Does not include pumpback.

**Table 5. Thermalito Forebay  
Including Diversion Pool and Power Canal**

Daily Operation  
(in acre-feet except as noted)

Capacity: 25,120 ac-ft

**October 1996**

Date	Storage 1/	Storage Change 2/	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumpback	Thermalito Generation 3/	Butte County	Thermalito Irrigation District	Releases To River 4/	Hyatt Pumpback	
Sep 30	21,480										
1	21,349	-131	3,377	0	0	2,220	0	7	1,228	0	-53
2	21,335	-14	5,328	0	0	4,073	0	7	1,220	0	-42
3	21,514	179	4,869	0	0	3,416	0	7	1,237	0	-30
4	21,767	253	5,836	0	0	4,324	0	7	1,237	0	-15
5	22,287	520	6,356	0	0	4,578	0	7	1,239	0	-12
6	22,132	-155	5,864	0	0	4,746	0	7	1,239	0	-27
7	21,881	-251	6,231	0	0	5,254	0	7	1,234	0	13
8	22,194	313	6,778	0	0	5,195	0	7	1,236	0	-27
9	22,036	-158	5,409	0	0	4,312	0	7	1,236	0	-12
10	21,101	-935	5,699	0	0	5,408	0	7	1,239	0	20
11	21,060	-41	6,514	0	0	5,327	0	7	1,235	0	14
12	21,181	121	7,155	0	0	5,808	0	7	1,237	0	18
13	21,689	508	7,210	0	0	5,485	0	7	1,240	0	30
14	21,709	20	7,230	0	0	6,179	0	7	1,239	0	215
15	22,110	401	6,966	205	0	5,526	0	7	1,241	0	4
16	22,410	300	8,159	217	0	5,552	0	7	2,654	0	137
17	23,525	1,115	8,539	253	0	4,301	0	7	3,251	0	-118
18	23,583	58	7,405	213	0	4,431	0	7	3,193	0	71
19	23,334	-249	7,405	278	0	4,681	0	7	3,134	0	-110
20	22,930	-404	7,050	196	0	4,292	0	7	3,191	0	-160
21	22,977	47	7,236	28	0	3,976	1	7	3,172	0	-61
22	22,467	-510	7,158	0	0	4,345	1	7	3,249	0	-66
23	22,603	136	7,517	0	0	4,186	1	7	3,170	0	-17
24	22,419	-184	7,534	0	0	4,530	1	7	3,191	0	11
25	22,228	-191	7,367	0	0	4,326	1	7	3,170	0	-54
26	22,485	257	7,464	0	0	4,123	1	7	3,187	0	111
27	22,258	-227	7,236	183	0	4,375	1	7	3,168	0	-95
28	22,867	609	6,992	264	0	2,841	1	7	3,626	0	-172
29	22,992	125	6,498	369	0	2,784	1	7	3,685	0	-265
30	23,481	489	6,442	0	0	2,628	1	8	3,687	0	371
31	23,321	-160	7,082	244	0	3,690	1	8	3,707	0	-80
TOTALS		1,841	207,906	2,450	0	136,912	11	219	70,972	0	-401

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, spill, and spillway leakage.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

**Table 6. Thermalito Afterbay**

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

**October 1996**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow	Outflow						Losses (-) And Gains (+)	Total Releases To River 2/	
				Thermalito Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	River Outlet	Thermalito Pumpback			
Sep 30	124.26	15,771											
1	123.62	14,277	-1,494	2,220	893	0	21	402	2,341	0	-57	3,569	
2	123.80	14,690	413	4,073	873	0	21	422	2,341	0	-3	3,561	
3	123.73	14,529	-161	3,416	869	0	21	482	2,341	0	136	3,578	
4	123.81	14,713	184	4,324	865	0	21	522	2,717	0	-15	3,954	
5	123.85	14,806	93	4,578	853	0	21	522	3,114	0	25	4,353	
6	123.77	14,621	-185	4,746	849	0	20	545	3,531	0	14	4,770	
7	123.88	14,876	255	5,254	857	0	71	589	3,531	0	49	4,765	
8	123.91	14,946	70	5,195	877	0	139	609	3,531	0	31	4,767	
9	123.61	14,254	-692	4,312	833	0	184	611	3,531	0	155	4,767	
10	123.69	14,437	183	5,408	815	0	224	637	3,531	0	-18	4,770	
11	123.64	14,323	-114	5,327	902	18	248	670	3,531	0	-72	4,766	
12	123.88	14,876	553	5,808	928	30	254	670	3,531	0	158	4,768	
13	123.84	14,783	-93	5,485	960	30	254	670	3,531	0	-133	4,771	
14	124.03	15,226	443	6,179	1,069	30	256	791	3,531	0	-59	4,770	
15	123.83	14,760	-466	5,526	1,111	30	379	930	3,531	0	-11	4,772	
16	123.93	14,992	232	5,552	1,244	30	488	1,006	2,460	0	-92	5,114	
17	123.86	14,829	-163	4,301	1,279	20	553	1,061	1,571	0	20	4,822	
18	123.85	14,806	-23	4,431	1,279	4	571	1,087	1,569	0	56	4,762	
19	123.93	14,992	186	4,681	1,194	2	573	1,059	1,579	0	-88	4,713	
20	123.88	14,876	-116	4,292	1,101	2	571	1,027	1,573	0	-134	4,764	
21	123.81	14,713	-163	3,976	1,091	2	512	1,025	1,573	0	64	4,745	
22	123.85	14,806	93	4,345	1,089	2	413	1,055	1,569	0	-124	4,818	
23	123.84	14,783	-23	4,186	1,107	2	399	1,150	1,567	0	16	4,737	
24	123.98	15,109	326	4,530	1,139	0	452	1,238	1,565	0	190	4,756	
25	123.85	14,806	-303	4,326	1,111	2	472	1,297	1,557	0	-190	4,727	
26	123.76	14,598	-208	4,123	1,150	0	472	1,325	1,170	0	-214	4,357	
27	123.99	15,132	534	4,375	1,162	2	472	1,325	795	0	-85	3,963	
28	123.89	14,899	-233	2,841	1,146	2	472	1,325	274	0	145	3,900	
29	123.88	14,876	-23	2,784	1,127	2	472	1,301	111	0	206	3,796	
30	123.84	14,783	-93	2,628	1,020	2	472	1,164	104	0	41	3,791	
31	124.32	15,914	1,131	3,690	877	1	472	1,053	69	0	-87	3,776	
<b>TOTALS</b>				143	136,912	31,670	213	9,970	27,570	67,270	0	-76	138,242

1/ Includes Bypass flows at Thermalito.

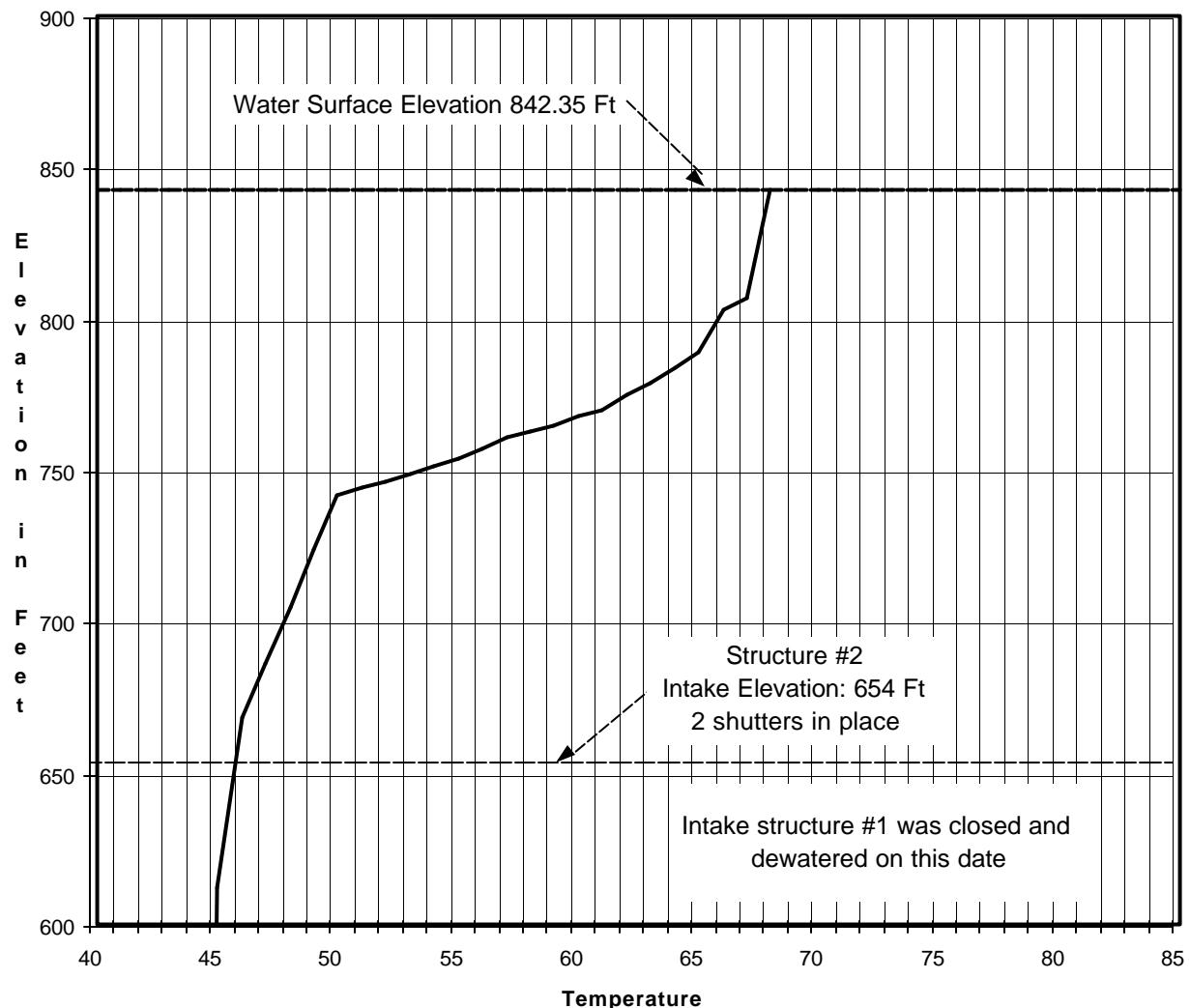
2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

**Table 7. Oroville-Thermalito Complex**

Water Temperature Data  
October 1996

Date	Mean Daily Temperature	
	Afterbay Outlet	Fish Hatchery
1	65	52
2	65	51
3	66	50
4	66	50
5	66	49
6	64	49
7	63	49
8	62	49
9	61	49
10	60	49
11	59	49
12	59	49
13	59	49
14	58	49
15	57	49
16	55	49
17	55	49
18	54	49
19	54	49
20	53	49
21	52	49
22	52	49
23	53	49
24	53	49
25	52	49
26	51	49
27	51	49
28	51	49
29	51	49
30	52	49
31	53	49

**Lake Oroville Temperature Profile  
on October 16, 1996**



**Table 8. Aqueduct Operation**  
**Delta Field Division**  
(in acre-feet except as noted)

October 1996

NORTH BAY AQUEDUCT

Pumped at Barker Slough	2,527
Travis Turnout	291
Fairfield/Vacaville Turnout	176
Pumped at Cordelia	1,961
Cordelia Spillway	0
Computed Losses (-) or Gains (+)	-99
Benicia Turnout	1,161
Vallejo Turnout	317
American Canyon 1	148
American Canyon 2	5
Napa Treatment Plant	330
Total Deliveries (After Cordelia)	1,961
Change in Storage at Napa Terminal Tank	0

CALIFORNIA AQUEDUCT

Amount Pumped at Banks Pumping Plant	336,186
Amount Pumped at South Bay Pumping Plant	4,755
Deliveries From California Aqueduct ( Oak Flat Water District, Tracy Golf, Veterans Cemetery, and Musco Olive)	160
Inflow into California Aqueduct	0
Change in Storage	-835
Flow Past Check 12	325,529
Computed Losses (-) or Gains (+)	-6,577

Note: Individual pool elevation and storage changes for pools 1-12 are available at Project Operations Center.

**Table 9. Delta Field Division Plant Data**

(in acre-feet)

**October 1996**

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct	
	Barker Slough	Cordelia	Banks		South Bay	Del Valle Into Lake
			Total	SWP		
1	90	75	12,940	12,940	178	0
2	89	77	12,940	12,940	171	0
3	95	70	12,929	12,929	185	0
4	116	94	11,676	11,676	202	0
5	88	73	12,969	12,969	193	0
6	97	73	12,879	12,879	170	0
7	90	71	12,151	12,151	202	0
8	94	76	13,058	13,058	202	0
9	103	80	12,959	12,959	185	0
10	96	76	11,701	11,701	162	0
11	66	55	10,025	10,025	174	0
12	68	56	9,897	9,897	174	0
13	75	59	11,091	7,131	174	0
14	85	0	10,689	7,497	166	0
15	74	61	10,011	6,819	167	0
16	66	54	11,496	7,506	147	0
17	64	51	11,740	7,259	192	0
18	62	49	10,689	6,208	185	0
19	57	46	10,109	5,658	183	0
20	55	45	10,023	10,023	192	0
21	64	55	10,035	5,537	197	0
22	98	80	9,394	4,822	162	0
23	98	81	7,945	4,756	159	0
24	83	68	10,100	5,568	122	0
25	81	59	9,046	4,474	82	0
26	75	60	8,699	4,167	78	0
27	97	79	8,739	4,308	83	0
28	97	79	8,759	4,187	78	0
29	86	66	9,942	5,370	62	0
30	52	43	10,339	5,767	51	0
31	66	50	11,216	6,644	77	0
Total	2,527	1,961	336,186	259,825	4,755	0

**Table 10. Clifton Court Forebay**

Daily Operation of Gates

**October 1996**

Date	Time Opened	Time Closed	Daily Amount of inflow in Acre-Feet	Date	Time Opened	Time Closed	Daily Amount of inflow in Acre-Feet
1	---	03:56		16	---	03:20	
	07:20	16:23			06:21	19:16	10,952
	17:50	19:58					
	22:40	---	13,052	17	00:01	04:11	
					07:11	20:11	11,389
2	---	04:49		18	00:51	05:09	
	07:53	20:58			09:34	16:43	10,889
	23:30	---	13,105				
3	---	05:47		19	01:50	06:11	
	08:54	18:10			09:24	17:17	10,308
	19:35	22:00	13,192	20	00:59	06:11	
4	01:10	05:20			10:20	17:30	
	10:14	---	13,112		19:35	---	10,308
5	---	06:20		21	---	06:17	
	10:55	11:55			11:25	12:30	
	15:54	---	11,920		16:10	16:36	
					18:30	21:13	8,896
6	---	00:20		22	00:13	03:00	
	02:30	08:46			05:52	09:22	
	11:53	12:53			12:22	18:59	10,503
	16:39	---	11,687	23	06:44	10:15	
7	---	08:00			19:31	23:02	7,607
	12:46	13:46					
	17:14	---	12,430	24	02:02	10:57	
8	---	09:15			20:34	23:50	10,170
	13:28	14:28					
	17:46	---	13,219	25	02:50	11:00	
					20:48	---	10,457
9	---	10:25		26	---	00:35	
	14:20	15:05			03:35	11:30	
	18:04	22:50	13,224		21:26	---	8,984
10	00:25	10:45		27	---	01:00	
	20:23	---	11,891		04:18	12:01	
11	---	00:14			21:03	---	8,261
	03:14	11:05					
	14:28	16:20					
	21:09	---	10,907	28	---	00:52	
12	---	00:16			04:00	12:20	
	03:46	13:25			21:40	---	8,835
	21:50	---	9,326	29	---	01:45	
13	---	01:21			04:45	13:30	
	04:21	14:42			20:17	---	10,704
	22:45	---	9,309	30	---	01:50	
14	---	02:00			05:28	18:37	
	05:00	14:10			20:56	---	11,710
	15:30	17:55					
	22:40	---	11,664	31	---	02:13	
15	---	02:35			06:30	19:33	
	05:37	14:02			22:00	23:10	10,425
	15:34	22:50					
	23:20	---	10,696				

Total inflow for the month: 339,132 AF

**Table 11. Governor Edmund G. Brown California Aqueduct**

## Delta Field Division, Monthly Deliveries

(In acre-feet)

October 1996

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries						
	Beginning and Ending				Entitlement		USBR	Misc.	Loan Water	1995 Carryover Ent.	
	No.	Structure	Mile								
2A	1	Banks Pumping Plant	3.32		336,186	43	27	87	0	0	
	1	South Bay Pumping Plant		South Bay Aqueduct	4,755						
		Check No. 1	5.95								
	2	Check No. 2	12.01								
	3		12.47	Musco Olive	43						
		Check No. 3	18.29								
	4		22.16	Tracy Golf & Country Club	0						
		Check No. 4	23.99								
	5	Check No. 5	29.73								
	6	Check No. 6	34.24								
	7		35.22	Turlock Fruit Company Inflow	0						
		Check No. 7	39.91								
2B	8		42.46	Oak Flat Water District-A	27	27	87	0	0	0	
			43.81	Oak Flat Water District-B	87						
			44.64	Oak Flat Water District-C	0						
		Check No. 8	45.97								
	9		46.18	Oak Flat Water District-D	0						
				Oak Flat Totals:	114	114	0	0	0	0	
		Check No. 9	51.30								
	10	Check No. 10	56.86								
	11	Check No. 11	61.40								
	12		66.14	Veteran's Cemetery	3	3					
		Check No. 12	66.71		325,529						

## **Table 12. South Bay Aqueduct**

Delta Field Division, Monthly Deliveries

(In acre-feet)

October 1996

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Entitlement	1995 Carryover M&I Ent.	Local	Rec.	Drought Bank	Oper. Flood Loss		
	No.	Structure	Mile										
1	1		3.17	Granite - Vasco Rd. (Temp.)	0	12	12						
			3.18	Zone 7 Oakland Scavenger	12								
		Check No. 1	3.91										
	2	Check No. 2	5.21										
2	3		7.21	Zone 7 Altamont	16	16	932						
		Check No. 3	9.49	Zone 7 Patterson	932								
4	4	Check No. 4	10.68			275	275						
		Check No. 5	12.29										
	6		13.55	Zone 7 Wente No. 1	170		170						
			14.16	Zone 7 Wente No. 2	28								
		Check No. 6	14.65										
	7		14.78	Zone 7 Arroyo Mocho	275								
		Check No. 7	16.38										
	8	Del Valle Branch Pipeline Junction	16.57	Zone 7 Wente No. 3	38	38	38						
			16.69	Zone 7 Norman Nursery	0								
			16.70	Zone 7 Concannon	30								
			18.63										
				Arroyo Valle No. 1 & No. 2 Project Water	117		117						
5	Deliveries through Del Valle Branch Pipeline			Arroyo Valle No. 1 & No. 2 Inflow Released	0								
				Lake Del Valle Recreation	12								
				Zone 7 Wente No. 5	33		33						
			19.20	So. Livermore Project	1,564								
				So. Livermore Stored Released	600								
6				So. Livermore Inflow Exchanged	0								
			19.21	Zone 7 - Kalthrof Detjens	80								
7	La Costa Tunnel		22.50	ACWD Vallecitos - Flood Release	791	791	1,564						
			25.97	City of San Francisco San Antonio	0								
8	Mission Tunnel			ACWD - Bayside 1 & 2 Project Water: Inflow Exchanged: Stored Released:	383	383	600						
			28.97		0								
9	Santa Clara Pipeline		35.86	S.C.V.W.D. Meter	6,028	6,028							

**Table 13. Lake Del Valle**

Daily Operation

(in acre-feet except as noted)

**October 1996**

Capacity: 77,106 ac-ft

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)	
				Natural 1/ 3/	From South Bay Aqueduct	Arroyo Valle /3	South Bay Aqueduct /3	Recreation Deliveries 2/ 3/	Evaporation	Total Outflow 3/		
Sep 30	692.73	33,061										
1	692.36	32,830	-231		0				8		0.00	
2	691.96	32,581	-249		0				7		0.00	
3	691.57	32,340	-241		0				7		0.00	
4	691.18	32,100	-240		0				7		0.00	
5	690.78	31,855	-245		0				11		0.00	
6	690.37	31,605	-250		0				10		0.00	
7	689.98	31,369	-236		0				16		0.00	
8	689.59	31,134	-235		0				12		0.00	
9	689.20	30,901	-233		0				15		0.00	
10	688.81	30,669	-232		0				10		0.00	
11	688.41	30,432	-237		0				9		0.00	
12	688.02	30,202	-230		0				7		0.00	
13	687.63	29,974	-228		0				6		0.00	
14	687.22	29,735	-239		0				4		0.00	
15	686.79	29,486	-249		0				10		0.00	
16	686.33	29,222	-264		0				9		0.00	
17	685.83	28,937	-285		0				8		0.00	
18	685.35	28,665	-272		0				7		T	
19	684.85	28,385	-280		0				1		0.04	
20	684.35	28,106	-279		0				7		0.00	
21	683.84	27,825	-281		0				6		0.00	
22	683.39	27,578	-247		0				10		0.00	
23	682.98	27,355	-223		0				8		0.00	
24	682.57	27,134	-221		0				4		0.05	
25	682.14	26,904	-230		0				2		0.00	
26	681.67	26,654	-250		0				2		T	
27	681.23	26,422	-232		0				8		0.00	
28	680.74	26,166	-256		0				9		0.00	
29	680.35	25,964	-202		0				2		0.19	
30	680.04	25,804	-160		0				0		0.54	
31	679.66	25,610	-194		0				0		0.12	
<b>Totals</b>				<b>-7,451</b>	<b>-264</b>	<b>0</b>	<b>0</b>	<b>6,952</b>	<b>12</b>	<b>223</b>	<b>7,187</b>	<b>0.94</b>

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ To East Bay Regional Park District.

3/ Not available on a daily basis.

NR=No Records

**Table 14. Consolidated State-Federal O'Neill Forebay**

Daily Operations

**October 1996**

United States

State of California

Department of the Interior

The Resources Agency

Bureau of Reclamation

Department of Water Resources

Central Valley Project

State Water Project

Capacity: 56,430 Acre-feet

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
				Pump In 1/	O'Neill Pump.	Gianelli Gen.	Calif. Aq.	O'Neill Gen.	Gianelli Pump.	D.A. Pump.	Del. 2/	
Sep 30	219.50	41,862										
1	219.90	42,893	1,031	0	924	0	6,415	0	3,130	3,761	12	84
2	220.06	43,308	415	0	997	0	6,300	0	3,985	3,189	12	98
3	219.85	42,774	-534	0	1,166	607	6,268	0	5,069	3,320	11	90
4	219.04	40,686	-2,088	0	1,411	0	5,600	0	4,821	3,417	18	192
5	219.39	41,579	893	0	1,462	0	6,522	0	4,317	3,352	13	148
6	219.74	42,480	901	0	1,329	0	6,297	0	4,207	2,953	10	-2
7	219.96	43,048	568	0	1,230	0	5,838	0	4,294	2,573	12	97
8	221.74	47,703	4,655	0	821	1,354	6,177	0	3,160	2,814	15	-16
9	220.80	45,237	-2,466	0	1,189	0	6,249	0	5,788	2,801	18	-74
10	219.63	42,196	-3,041	0	1,649	457	5,873	0	6,130	3,143	16	-223
11	219.90	42,893	697	0	1,690	938	4,962	0	4,145	3,125	14	45
12	220.18	43,619	726	0	1,823	0	4,944	0	3,276	3,102	16	-7
13	219.21	41,119	-2,500	0	1,929	0	5,543	0	6,217	2,472	13	-30
14	220.87	45,420	4,301	0	2,024	0	4,960	0	1,998	2,792	17	-9
15	222.36	49,341	3,921	0	2,072	1,353	5,039	0	4,875	1,419	16	-177
16	220.37	44,114	-5,227	0	2,202	0	5,240	0	6,280	3,447	12	-338
17	220.46	44,348	234	0	2,323	0	5,777	0	4,887	3,060	13	-22
18	220.87	45,420	1,072	0	2,541	0	5,439	0	4,724	2,702	16	2
19	221.08	45,970	550	0	2,634	0	4,898	0	4,282	2,921	15	-37
20	218.90	40,330	-5,640	0	2,581	0	4,853	0	7,292	3,012	11	38
21	219.64	42,222	1,892	0	2,639	0	4,812	0	3,984	2,503	7	-3
22	220.37	44,114	1,892	0	2,771	0	4,561	0	3,426	2,719	8	-225
23	219.51	41,887	-2,227	0	2,691	0	3,843	0	5,100	2,390	5	-162
24	220.89	45,472	3,585	0	2,846	0	4,895	0	3,490	2,654	8	218
25	221.09	45,996	524	0	3,057	0	4,407	0	4,412	2,601	7	-180
26	221.42	46,863	867	0	3,169	0	4,243	0	4,732	2,187	8	-48
3/ 27	219.57	42,042	-4,821	0	3,132	0	4,233	0	7,809	1,822	10	-57
28	220.75	45,106	3,064	0	3,057	0	4,139	0	4,009	1,508	7	-127
29	221.69	47,572	2,466	0	2,978	0	5,076	0	4,746	2,057	9	1
30	221.06	45,918	-1,654	0	2,422	0	5,092	0	6,610	1,647	5	-86
31	222.08	48,597	2,679	0	3,205	0	5,448	0	5,980	1,318	5	1
<b>TOTAL</b>			6,735	0	65,964	4,709	163,943	0	147,175	82,781	359	-808
<b>MEAN CFS</b>			---	0	2,128	152	5,288	0	4,748	2,670	12	-26
<b>ACRE-FEET</b>			6,735	0	131,097	9,341	325,529	0	292,565	164,349	713	-1,605

1/ Pump-in located at Mile 79.67R.

2/ Includes 177 AF delivered to DFG at O'Neill Forebay

3/ 25 Hr. day; The factor to convert CFS/AF is 2.0661 for 10/27/95.

**Table 15. Consolidated State-Federal San Luis Reservoir**

Daily Operations

**October 1996**

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)	Evap. (in)	Prec. (in)
				Gianelli Pump.	Gianelli Gen.	Pacheco Tunnel 1/	B.F. Sisk San Luis Dam Spill				
Sep 30	444.14	914,750									
1	444.65	919,709	4,959	3,130	0	332	0	-298	0.40	0.00	
2	445.36	926,628	6,919	3,985	0	238	0	-259	0.29	0.00	
3	446.19	934,738	8,110	5,069	607	187	0	-186	0.25	0.00	
4	447.08	943,461	8,723	4,821	0	140	0	-283	0.30	0.00	
5	447.90	951,522	8,061	4,317	0	80	0	-173	0.23	0.00	
6	448.66	959,013	7,491	4,207	0	125	0	-305	0.30	0.00	
7	449.45	966,821	7,808	4,294	0	184	0	-174	0.33	0.00	
8	449.76	969,890	3,069	3,160	1,354	187	0	-72	0.34	0.00	
9	450.85	980,709	10,819	5,788	0	189	0	-145	0.35	0.00	
10	451.90	991,169	10,460	6,130	457	179	0	-220	0.55	0.00	
11	452.49	997,063	5,894	4,145	938	179	0	-56	0.22	0.00	
12	453.08	1,002,968	5,905	3,276	0	184	0	-115	0.30	0.00	
13	454.23	1,014,511	11,543	6,217	0	179	0	-218	0.25	0.00	
14	454.56	1,017,831	3,320	1,998	0	180	0	-144	0.27	0.00	
15	455.18	1,024,080	6,249	4,875	1,353	176	0	-196	0.35	0.00	
16	456.36	1,036,006	11,926	6,280	0	115	0	-152	0.37	0.00	
17	457.27	1,045,235	9,229	4,887	0	172	0	-62	0.28	0.00	
18	458.14	1,054,083	8,848	4,724	0	172	0	-91	0.17	0.00	
19	458.88	1,061,628	7,545	4,282	0	168	0	-310	0.30	0.00	
20	460.20	1,075,131	13,503	7,292	0	174	0	-310	0.31	0.00	
21	460.85	1,081,801	6,670	3,984	0	206	0	-415	0.29	0.00	
22	461.57	1,089,205	7,404	3,426	0	150	0	457	0.22	0.00	
23	462.40	1,097,760	8,555	5,100	0	286	0	-501	0.18	0.00	
24	463.04	1,104,372	6,612	3,490	0	273	0	117	0.19	0.00	
25	463.74	1,111,618	7,246	4,412	0	267	0	-492	0.20	0.00	
26	464.56	1,120,126	8,508	4,732	0	265	0	-178	0.25	0.00	
2/27	466.02	1,135,327	15,201	7,809	0	258	0	-194	0.38	0.00	
28	466.68	1,142,221	6,894	4,009	0	276	0	-257	0.22	0.00	
29	467.59	1,151,747	9,526	4,746	0	208	0	265	0.24	0.22	
30	468.82	1,164,664	12,917	6,610	0	255	0	157	0.00	0.83	
31	469.84	1,175,411	10,747	5,980	0	173	0	-389	0.08	0.73	
<b>TOTAL</b>			260,661	147,175	4,709	6,157	0	-5,199	8.41	1.78	
<b>MEAN CFS</b>			---	4,748	152	199	0	-168	---	---	
<b>ACRE-FEET</b>			260,661	292,565	9,341	12,236	0	-10,327	---	---	

1/ Pacheco Tunnel, San Felipe Split; Santa Clara: 8,645 AF, San Benito: 3,591 AF

2/ 25 Hr. day; The factor to convert CFS/AF is 2.0661 for 10/27/95.

**Table 16. San Luis Field Division Plant Data**

(in acre-feet)

**October 1996**

Date	Dos Amigos Pumping Plant		William R. Gianelli Pumping- Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/, 2/	Total Generation	SWP Generation 1/, 2/	Total Pumping	SWP Pumping 1/, 2/	Federal
1	7,459	6,927	0	0	6,208	4,393	659
2	6,326	5,818	0	0	7,905	7,905	473
3	6,585	6,084	1,203	1,203	10,055	8,800	370
4	6,778	6,278	0	0	9,563	6,267	277
5	6,648	6,137	0	0	8,563	5,362	158
6	5,858	5,346	0	0	8,345	7,110	247
7	5,104	4,595	0	0	8,517	6,041	364
8	5,581	4,410	2,686	2,686	6,267	6,267	371
9	5,556	4,359	0	0	11,480	9,944	374
10	6,235	5,052	907	907	12,158	10,677	356
11	6,198	5,028	1,861	1,861	8,221	5,350	355
12	6,153	4,986	0	0	6,497	4,433	364
13	4,904	3,772	0	0	12,331	3,794	356
14	5,538	4,362	0	0	3,964	33	358
15	2,815	1,994	2,684	2,684	9,670	4,896	350
16	6,838	6,153	0	0	12,456	6,528	228
17	6,069	5,404	0	0	9,693	1,914	342
18	5,360	4,664	0	0	9,370	1,495	342
19	5,794	4,676	0	0	8,493	11	334
20	5,974	4,878	0	0	14,464	3,379	346
21	4,965	3,892	0	0	7,903	236	409
22	5,393	4,309	0	0	6,796	363	297
23	4,740	3,661	0	0	10,115	1,128	567
24	5,264	4,170	0	0	6,923	60	541
25	5,159	4,059	0	0	8,752	-97	529
26	4,338	3,264	0	0	9,385	1,268	526
27	3,764	2,510	0	0	16,135	-102	534
28	2,992	1,961	0	0	7,952	244	548
29	4,081	3,022	0	0	9,413	3,618	412
30	3,266	2,192	0	0	13,110	2,592	506
31	2,614	1,583	0	0	11,861	4,129	343
Total	164,349	135,546	9,341	9,341	292,565	118,038	12,236

1/ Negative values in SWP columns indicate a mismatch of scheduled CVP energy and actual pumping;  
adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

**Table 17. Consolidated State-Federal Los Banos Reservoir**

Daily Operations

October 1996

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 34,560 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)	Evap. (in)	Prec. (in)
					Spill	Outlet			
Sep 30	325.96	19,722							
1	325.94	19,712	-10	0	0	0	-10	0.33	0.00
2	325.93	19,708	-4	0	0	0	-4	0.30	0.00
3	325.92	19,703	-5	0	0	0	-5	0.24	0.00
4	325.91	19,699	-4	0	0	0	-4	0.27	0.00
5	325.90	19,694	-5	0	0	0	-5	0.36	0.00
6	325.89	19,689	-5	0	0	0	-5	0.30	0.00
7	325.88	19,685	-4	0	0	0	-4	0.40	0.00
8	325.87	19,680	-5	0	0	0	-5	0.40	0.00
9	325.84	19,667	-13	0	0	0	-13	0.40	0.00
10	325.82	19,657	-10	0	0	0	-10	0.45	0.00
11	325.81	19,653	-4	0	0	0	-4	0.15	0.00
12	325.79	19,644	-9	0	0	0	-9	0.27	0.00
13	325.78	19,639	-5	0	0	0	-5	0.19	0.00
14	325.76	19,630	-9	0	0	0	-9	0.30	0.00
15	325.74	19,621	-9	0	0	0	-9	0.36	0.00
16	325.71	19,607	-14	0	0	0	-14	0.37	0.00
17	325.70	19,602	-5	0	0	0	-5	0.32	0.00
18	325.69	19,598	-4	0	0	0	-4	0.24	0.00
19	325.65	19,580	-18	0	0	0	-18	0.24	0.04
20	325.62	19,566	-14	0	0	0	-14	0.28	0.00
21	325.62	19,566	0	0	0	0	0	0.35	0.00
22	325.62	19,566	0	0	0	0	0	0.19	0.00
23	325.60	19,557	-9	0	0	0	-9	0.19	0.00
24	325.60	19,557	0	0	0	0	0	0.17	0.00
25	325.56	19,538	-19	0	0	0	-19	0.20	0.00
26	325.53	19,525	-13	0	0	0	-13	0.30	0.00
27	325.53	19,525	0	0	0	0	0	0.26	0.00
28	325.51	19,516	-9	0	0	0	-9	0.29	0.00
29	325.54	19,529	13	7	0	0	-1	0.24	0.25
30	325.60	19,557	28	14	0	0	0	0.04	0.43
31	325.57	19,543	-14	0	0	1	-13	0.06	0.23
<b>TOTAL</b>			-179	21	0	1	-220	8.46	0.95
<b>MEAN CFS</b>			---	0	0	0	---	---	---
<b>ACRE-FEET</b>			-179	42	0	1	-220	---	---

**Table 18. Consolidated State-Federal Little Panoche Reservoir**

Daily Operations

**October 1996**

United States

State of California

Department of the Interior

The Resources Agency

Bureau of Reclamation

Department of Water Resources

Central Valley Project

State Water Project

Capacity = 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft) 1/	Storage Change (ac-ft) 1/	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft) 1/
					Spill	Outlet	
Sep 30	601.40	758					
1	Not Observed			1	0	1	
2	Not Observed			1	0	1	
3	Not Observed			1	0	1	
4	601.40	758	0	1	0	1	
5	Not Observed			1	0	1	
6	Not Observed			1	0	1	
7	Not Observed			1	0	1	
8	Not Observed			1	0	1	
9	Not Observed			1	0	1	
10	Not Observed			1	0	1	
11	601.40	758	0	1	0	1	
12	Not Observed			1	0	1	
13	Not Observed			1	0	1	
14	Not Observed			1	0	1	
15	Not Observed			1	0	1	
16	Not Observed			1	0	1	
17	Not Observed			1	0	1	
18	601.40	758	0	1	0	1	
19	Not Observed			2	0	1	
20	Not Observed			2	0	1	
21	Not Observed			2	0	1	
22	Not Observed			2	0	1	
23	Not Observed			2	0	1	
24	Not Observed			2	0	1	
25	601.50	763	5	2	0	1	
26	Not Observed			3	0	1	
27	Not Observed			3	0	1	
28	Not Observed			3	0	1	
29	601.72	776	13	3	0	1	
30	601.85	783	7	6	0	2	
31	601.90	786	3	4	0	2	
TOTAL			28	54	0	33	---
MEAN CFS			---	2	0	1	---
ACRE-FEET			28	107	0	66	-13

1/ Not available on a daily basis

**Table 19a. Governor Edmund G. Brown California Aqueduct**

San Luis Field Division, Monthly Deliveries

**October 1996**

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries					
	Beginning and Ending					USBR	Transfer	DWR	USBR		
	No.	Structure	Mile					Recreation	Recreation		
3	13	O'Neill Forebay									
		Outlet Check No. 13	70.85	Department of Fish & Game	163			90	73		
			70.91			550					
			Thru	San Luis Water District	550	550					
			85.08								
				Reach 3 Total:	713	550	0	90	73		
4	14	Dos Amigos Pumping Plant	86.73		164,349						
			89.03								
			Thru	San Luis Water District	1,211	1,211					
			94.06								
			89.66								
			Thru	Pacheco Water District	126	126					
			89.67								
			89.68	Panoche Water District	4		4				
			89.70	City of Dos Palos	108		108				
		Check No. 14	95.06								
	15		98.15								
			Thru	San Luis Water District	102	102					
			104.20								
			96.15								
			Thru	Panoche Water District	539	539					
			102.64								
			102.64	Broadview Water District	2	2					
			105.22								
			Thru	Westlands Water District	3,156	3,156					
			108.64								
		Check No.15	108.50								
				Pacheco Water District Total:	126	126	0	0	0		
				Broadview Water District Total:	2	2	0	0	0		
				City of Dos Palos Total:	108	108	0	0	0		
				SLWD Reach 4 Subtotal:	1,313	1,313	0	0	0		
				Panoche Water District Total:	543	543	0	0	0		
				SLWD Total:	1,863	1,863	0	0	0		
				Westlands WD Reach 4 Subtotal:	3,156	3,156	0	0	0		

**Table 19b. Governor Edmund G. Brown California Aqueduct**

San Luis Field Division, Monthly Deliveries (Continued)

**October 1996**

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries							
	Beginning and Ending					USBR	Transfer	DWR	USBR				
	No.	Structure	Mile					Recreation	Recreation				
5	16		110.52	Westlands Water District	4,085	4,085	1,311	4,518	5,810				
			Thru										
			122.05										
	Check No. 16		122.07										
	17		124.18	Westlands Water District	1,311								
			Thru										
			132.74										
	Check No. 17		132.95										
	18		133.81	Westlands Water District	4,518								
			Thru										
			142.61										
	Pleasant Valley PP	143.16	Westlands Water District										
		143.16	City of Coalinga										
6	19		143.23										
			Westlands WD Reach 5 Subtotal:	15,724	15,724	15,724	0	0	0				
			145.26	Westlands Water District	9,304	9,304	9,304	9,304	9,304				
		Thru											
		151.19											
	Check No. 19	155.64											
7	20		Westlands WD Reach 6 Subtotal:	9,304	9,304	9,304	0	0	0				
			156.34	City of Huron	89	89							
			156.40	Westlands Water District	2,139	2,139	2,139	2,139	2,139				
			Thru										
		163.69											
	Check No. 20	164.69											
	21		164.79	City of Avenal	210	210							
			167.04	Westlands Water District	1,492	1,492	1,492	1,492	1,492				
			Thru										
		171.67											
	Check No. 21	172.40			125,922								
			Westlands WD Reach 7 Subtotal:	3,930	3,930	3,930	0	0	0				
			Westlands WD Total:	31,815	31,815	31,815	0	0	0				
			City of Coalinga Total:	419	419	419	0	0	0				
			City of Huron Total:	89	89	89	0	0	0				
			City of Avenal Total:	210	210	210	0	0	0				
			Phase I Water Total:	0	0	0	0	0	0				
			Total Canal Diversions:	35,338	35,175	35,175	0	90	73				

**Table 20. Consolidated State-Federal San Luis Canal 1/**

Daily Operations  
October 1996

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	Evap. (in)	Prec. (in)
			Non- Project 2/	Dos Amigos Pumping	SLWD 3/	PWD 4/	WWD 4/	SJFD			
Sep 30	29,494										
1	29,127	-367	0	3,761	21	26	575	3,195	-129	0.40	0.00
2	28,760	-367	0	3,189	17	26	569	2,708	-54	0.29	0.00
3	29,084	324	0	3,320	16	18	605	2,444	-74	0.25	0.00
4	28,916	-168	0	3,417	36	17	625	2,809	-15	0.30	0.00
5	28,794	-122	0	3,352	41	10	587	2,704	-72	0.23	0.00
6	29,249	455	0	2,953	29	8	498	2,097	-92	0.30	0.00
7	29,369	120	0	2,573	32	10	609	1,869	7	0.33	0.00
8	29,436	67	0	2,814	29	9	555	2,094	-93	0.34	0.00
9	29,501	65	0	2,801	31	9	589	2,082	-57	0.35	0.00
10	29,292	-209	0	3,143	37	8	589	2,554	-60	0.55	0.00
11	28,378	-914	0	3,125	37	5	588	2,900	-56	0.22	0.00
12	28,857	479	0	3,102	38	12	554	2,162	-95	0.30	0.00
13	28,497	-360	0	2,472	37	10	527	2,111	32	0.25	0.00
14	28,993	496	0	2,792	39	8	576	1,936	17	0.27	0.00
15	27,036	-1,957	0	1,419	27	9	496	1,826	-48	0.35	0.00
16	28,120	1,084	0	3,447	33	8	526	2,257	-76	0.37	0.00
17	28,126	6	0	3,060	35	9	538	2,416	-59	0.28	0.00
18	27,956	-170	0	2,702	21	8	554	2,014	-191	0.17	0.00
19	28,021	65	0	2,921	32	5	554	2,177	-120	0.30	0.00
20	28,694	673	0	3,012	27	6	512	1,959	-169	0.31	0.00
21	28,916	222	0	2,503	24	3	541	1,706	-117	0.29	0.00
22	29,514	598	0	2,719	15	6	506	1,686	-205	0.22	0.00
23	29,325	-189	0	2,390	19	5	552	1,766	-143	0.18	0.00
24	29,760	435	0	2,654	31	6	642	1,626	-130	0.19	0.00
25	29,388	-372	0	2,601	36	5	623	2,120	-5	0.20	0.00
26	29,837	449	0	2,187	10	5	491	1,385	-70	0.25	0.00
5/ 27	29,647	-190	0	1,898	6	6	453	1,392	-133	0.38	0.00
28	29,151	-496	0	1,508	8	7	466	1,206	-71	0.22	0.00
29	29,275	124	0	2,057	6	4	332	1,749	97	0.24	0.22
30	29,510	235	2	1,647	5	6	271	1,361	112	0.00	0.83
31	29,550	40	1	1,318	5	0	302	1,171	180	0.08	0.73
Total		56	3	82,857	780	274	16,405	63,482	-1,890	8.41	1.78
Mean (cfs)		---	0	2,673	25	9	529	2,048	-61	---	---
Acre-feet		56	5	164,349	1,547	543	32,540	125,922	-3,746	---	---

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Pump In of Non-Project Water (0 AF) and Flood Water (5 AF) is included in the gain or loss.

3/ Includes 125 AF AG & 1 AF M&I to Pacheco W.D. and 108 AF to the City of Dos Palos.

4/ Includes 89 AF to the City of Huron, 210 AF to the City of Avenal, 419 AF to the City of Coalinga,  
5 AF Phase I water, and 2 AF to Broadview W.D.

5/ 25 Hr. day; The factor to convert CFS/AF is 2.0661 for 10/27/95.

**Table 21. San Joaquin Field Division Plant Data**

(in acre-feet)

**October 1996**

Date	Coastal Aqueduct		California Aqueduct			
	Las Perillas	Badger Hill	Buena Vista	John R Teerink	Ira J. Chrisman	A.D. Edmonston
1	325	337	3,501	3,308	3,156	3,097
2	377	382	2,949	2,809	2,626	2,548
3	358	364	2,393	2,464	2,297	2,357
4	409	402	3,077	2,717	2,515	2,347
5	370	377	2,576	2,603	2,419	2,217
6	312	319	1,708	1,611	1,490	1,523
7	338	348	1,396	1,539	1,352	1,320
8	336	340	1,746	1,546	1,347	1,397
9	293	280	1,530	1,508	1,392	1,249
10	297	290	2,362	2,141	2,023	1,932
11	303	306	2,530	2,360	2,191	2,103
12	249	264	2,422	2,359	2,185	1,996
13	180	198	2,027	2,065	1,999	1,973
14	277	272	1,587	1,516	1,430	1,356
15	358	354	1,102	977	870	805
16	314	292	1,417	1,197	1,088	1,137
17	319	312	1,999	1,931	1,918	1,625
18	279	267	1,464	1,299	1,204	1,411
19	224	223	1,679	1,577	1,483	1,490
20	138	148	1,522	1,464	1,380	1,334
21	228	219	1,323	1,408	1,455	1,452
22	130	132	1,588	1,594	1,533	1,519
23	64	64	1,679	1,646	1,545	1,506
24	153	157	1,679	1,607	1,558	1,504
25	163	166	2,096	1,804	1,704	1,528
26	157	161	1,355	1,500	1,402	1,355
27	130	113	935	893	833	766
28	257	267	945	987	995	984
29	284	297	1,853	1,627	1,563	1,529
30	35	35	1,636	1,577	1,582	1,511
31	0	0	1,553	1,627	1,568	1,457
Total	7,657	7,686	57,629	55,261	52,103	50,328

**Table 22a. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

**October 1996**

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries					
	Beginning and Ending				Entitlement	Purchase Pool A	Transfer	USBR	MWD Ent. 1/	
	No.	Structure	Mile							
7	21	Check No. 21	172.40	125,922						
8C	22		Empire West Side Irrig. Dist. TL - A County of Kings TL - A TLBWSA TL-A 175.18 DRWD - 1 180.64 TLBWSA - C 180.65 DRWD - 1A Dudley Ridge Water Dist. 182.99 DRWD - 2 183.00 TLB WSD TL - B 184.63 Coastal Branch Dudley Ridge Water Dist. 184.78 DRWD - 3 Dudley Ridge Total: Tuleare Lake Basin WSD Total:	0 600 2,938 203 11,082 203 0 395 597 12,250 534 1,729 15,188	600 2,938 203 395 597 12,250 534 0 6,644	6,644 1,500 2,000 0 3,500				
8D	31A		Check No. 22 184.82 Kern County Water Agency 189.69 Lost Hills Water Dist. - 1 191.18 Lost Hills Water Dist. - 2 194.22 Lost Hills Water Dist. - 3 196.40 Berrenda Mesa - 2 196.75 Lost Hills Water Dist. - 4 K.C.W.A. Reach 9 Subtotal:	1,727 230 2 4 5 1,968	1,727 230 2 4 5 1,968	0 0 0 0 0				
9	8D		Check No. 23 197.05 Kern County Water Agency 201.24 Lost Hills Water Dist. - 7 202.05 Lost Hills Water Dist. - 5 204.69 Lost Hills Water Dist. - 6 205.26 Lost Hills Water Dist. - 8 K.C.W.A. Reach 10A Subtotal:	376 31 78 109 76 60	376 31 78 109 76 60	0 0 0 0 0 0				
10A	24		Check No. 24 207.94 Kern County Water Agency 209.71 Belridge Water Storage Dist. - 1A 209.78 USBR BV-1B 209.80 Buena Vista WSD 1B KCWA Semitropic WSD KCWA Semitropic WSD Penstocks USBR Total: K.C.W.A. Reach 10A Subtotal:	100 2,609 109 76 60 0 0	100 2,609 109 76 60 0 0	0 0 0 0 0 0 0				
10A	25		Check No. 25 209.71 Kern National Wildlife Refuge USBR BV-1B 209.78 Buena Vista WSD 1B 209.80 KCWA Semitropic WSD KCWA Semitropic WSD Penstocks USBR Total: K.C.W.A. Reach 10A Subtotal:	6,000 4,900 6,000 0 0	6,000 4,900 6,000 0 0	0 0 0 0 0				

1/ Semitropic Water Storage District is storing this water for MWDSC.

**Table 22b. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**October 1996**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Purchase Pool A	Transfer	USBR	MWD Ent.		
	No.	Structure	Mile									
11B	25		210.75	Kern County Water Agency Belridge - 2	0	75	75					
			214.11	Kern County Water Agency Belridge - 3	75							
			216.62	Kern County Water Agency Belridge - 4	0							
			217.13	Kern County Water Agency Belridge - 5	3,028	3,028	3,028					
				Kern County Water Agency Belridge - 5D	101							
		Check No. 25	217.79									
				K.C.W.A. Reach 11B Subtotal:	3,204	3,204	0	0	0	0		
12D	26		219.58	Kern County Water Agency Belridge - 6	0							
		Check No. 26	224.92									
12E	27		230.37	Kern County Water Agency Buena Vista - 6	0	13,045	13,045					
			Check No. 27	231.73								
			235.75	Kern County Water Agency Buena Vista - 2	0							
				K.C.W.A. C.V.C.	13,045							
			238.04	Kern-Tulare W.D. Tulare Co. Lower Tule River Fresno Co. Pixley ID	0 0 0 0 0							
	28			Hacienda DWR Wells	0							
				Check No. 28	238.11							
				CVC Subtotal:	0	0	0	0	0	0		
				K.C.W.A. Reach 12E Subtotal:	13,045							
13B	29		241.02	Kern River Intertie		621	621					
			242.85	KCWA Buena Vista WSD - 7	0							
				KCWA Buena Vista WSD - 5	0							
			243.09	Kern County Water Agency Buena Vista - 3	621							
		Check No. 29	244.54	Buena Vista WSD	0							
	30		249.85	Kern County Water Agency Buena Vista - 4	0							
			Buena Vista Pumping Plant	250.99	57,629							
				K.C.W.A. Reach 13B Subtotal:	621	621	0	0	0	0		
14A	31		254.47	Kern County Water Agency West Kern - 2	0							
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	20	20	20					

**Table 22c. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**October 1996**

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries						
	Beginning and Ending		Structure			Entitle-ment	Purchase	Pool A	Transfer	USBR		
	No.	Structure	Mile	Entitle-ment			Purchase	Pool A	MWD Ent.			
14A	31	Check No. 31	256.14			184	184	0	0	0		
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3	184							
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4	127	127						
		Check No. 32	261.72									
				K.C.W.A. Reach 14A Subtotal:	331	331	0	0	0	0		
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	1,049	1,049	225	0	0	0		
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	225							
			267.36									
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	760	760	0	0	0	0		
			271.27									
				Reach 14B Total:	2,034	2,034	0	0	0	0		
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	912	912	781	0	0	0		
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	781							
				Reach 14C Total:	1,693	1,693	0	0	0	0		
	Teerink Pumping Plant	278.13			55,261							
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	270	270	1,781	0	0	0		
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	1,781							
				Reach 15-A Total:	2,051	2,051	0	0	0	0		
	Chrisman Pumping Plant	280.36			52,103							
16A	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0	161	0	0	0	0		
			283.95									
	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	0							
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	161							
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0							
	Check No. 38	287.09										
16A	39		287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	0	641	144	0	0	0		
			290.21									
	40		291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	641							
17E			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	144							
				Kern County Water Agency TC-15	1,091	1,091	0	0	0	0		
				K.C.W.A. Reach 16A Subtotal:	2,037							
Edmonston Pumping Plant	293.45			50,328								

**Table 23. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

**October 1996**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Entitlement	1995 Ent. CY-OV	Interup-table Ent.	Trans.	MWD Ent.	Coastal Fill		
	No.	Structure	Mile										
31A	C-1	Coastal Branch Control	0.02		7,657	200	200						
		Las Perillas Pumping Plant	1.16		7,657								
	C-2		3.79	Green Valley Water District	0								
		Badger Hill Pumping Plant	4.27		7,686								
	C-3	Coastal Check No. 3	7.21										
	C-4		9.34	Castaic Lake W.A. (Devil's Den W.D. #1)	0								
		Coastal Check No. 4	9.34										
	C-5	Coastal Check No. 5	12.20										
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	200								
			14.83	Kern County Water Agency Berrenda Mesa - DD	0								
				Kern County Water Agency Berrenda Mesa - PO	7,054								
				K.C.W.A. Reach 31A Subtotal:	7,254	7,254	0	0	0	0	0		
				1/ K.C.W.A. Total:	45,968	34,968	0	0	0	11,000	0		
33B		No. 1		Central Coastal Water Authority	81						81		

1/ An additional 1,500 AF of Ag. Entitlement was transferred to Tulare Lake Basin WSD and 4,334 AF of Ag. and 1,125 AF of M&I entitlement to Westlands Water District for a total of 6,959 AF.

**Table 24. Southern Field Division Plant Data**

(in acre-feet)

**October 1996**

Date	West Branch					East Branch					
	Oso Pumping Plant Pumping	Warne Powerplant Generation	Castaic Powerplant			Alamo Powerplant		Pearblossom Pumping Plant Pumping	Mojave Siphon Powerplant Generation	Devil Canyon Generation	
			Generation		Pumpback	Bypass	Generation				
	Total	SWP 1/									
1	2,462	1,570	3,922	1,360	963	0	646	387	0	919	
2	1,339	1,565	4,373	1,360	1,307	0	1,182	1,043	1,042	545	
3	1,724	1,555	4,394	1,357	1,213	0	670	393	250	525	
4	1,652	1,558	4,188	1,356	1,821	0	671	486	515	515	
5	1,480	1,567	3,789	1,356	1,964	232	501	625	600	510	
6	642	0	864	1,356	3,403	0	904	441	419	519	
7	564	724	5,288	1,361	2,598	0	718	641	395	521	
8	738	693	3,696	1,361	1,727	0	706	660	595	558	
9	797	1,040	3,514	838	2,633	0	460	417	233	565	
10	1,217	1,565	4,291	838	2,754	0	688	579	594	525	
11	1,304	1,565	4,953	837	2,742	0	798	625	595	509	
12	1,021	0	577	837	1,742	0	1,046	822	523	486	
13	280	0	1,237	837	1,144	0	1,631	1,392	479	502	
14	948	1,409	3,829	1,236	1,380	13	365	363	484	473	
15	693	1,414	4,396	1,234	2,129	0	157	58	326	485	
16	1,157	1,366	5,010	1,234	2,122	17	0	93	330	486	
17	1,581	1,438	4,493	1,235	2,715	0	0	0	335	474	
18	1,377	1,438	5,124	1,235	2,953	0	0	0	328	473	
19	1,441	1,441	748	1,235	1,569	28	0	0	327	471	
20	1,305	0	958	1,234	1,957	0	0	0	331	475	
21	1,447	1,394	4,460	1,242	2,063	0	0	0	336	485	
22	1,486	1,408	2,928	1,242	1,100	0	0	0	0	191	
23	1,497	1,411	3,493	1,242	1,373	0	0	0	105	363	
24	1,457	1,415	3,777	1,242	2,237	0	0	0	180	203	
25	1,485	1,426	3,307	1,241	1,792	0	0	0	129	150	
26	1,347	1,496	1,938	1,241	0	64	0	0	0	63	
27	724	0	1,827	1,241	737	0	0	0	0	159	
28	990	1,500	2,846	1,110	2,197	31	0	0	0	195	
29	1,473	1,522	3,952	1,110	2,097	0	0	0	0	758	
30	1,488	1,508	4,572	1,110	1,778	31	0	0	0	547	
31	1,410	1,496	3,860	1,110	2,389	0	0	0	0	393	
Total	38,526	36,484	106,604	36,828	58,599	416	11,143	9,025	9,451	14,043	

1/ Scheduled amounts of water credited to SWP in Elderberry Forebay, subject to change.

**Table 25. Pyramid Lake**  
Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

**October 1996**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow			Computed Losses (-) Gains (+)	
				Project		Natural	Project		Natural		
				Castaic Powerplant Pumpback	William E. Warne Powerplant	Stream Flow	Castaic Powerplant Generation	Recreation Deliveries	To Piru Creek		
Sep 30	2568.32	157,704									
1	2567.03	156,122	-1,582	963	1,570	14	3,922	0	10	-197	
2	2565.69	154,491	-1,631	1,307	1,565	15	4,373	0	10	-135	
3	2564.37	152,906	-1,585	1,213	1,555	16	4,394	0	10	35	
4	2563.71	152,099	-807	1,821	1,558	16	4,188	0	10	-4	
5	2563.47	151,811	-288	1,964	1,567	15	3,789	0	10	-35	
6	2565.71	154,515	2,704	3,403	0	15	864	0	10	160	
7	2563.84	152,256	-2,259	2,598	724	14	5,288	0	10	-297	
8	2562.75	150,948	-1,308	1,727	693	14	3,696	0	10	-36	
9	2562.90	151,128	180	2,633	1,040	14	3,514	0	10	17	
10	2562.78	150,984	-144	2,754	1,565	15	4,291	0	10	-177	
11	2562.28	150,387	-597	2,742	1,565	15	4,953	0	10	44	
12	2563.40	151,727	1,340	1,742	0	16	577	0	10	169	
13	2563.39	151,715	-12	1,144	0	16	1,237	0	10	75	
14	2562.45	150,590	-1,125	1,380	1,409	17	3,829	0	10	-92	
15	2561.76	149,767	-823	2,129	1,414	17	4,396	0	10	23	
16	2560.41	148,165	-1,602	2,122	1,366	17	5,010	0	10	-87	
17	2560.38	148,129	-36	2,715	1,438	17	4,493	0	10	297	
18	2559.78	147,421	-708	2,953	1,438	17	5,124	0	10	18	
19	2561.75	149,755	2,334	1,569	1,441	18	748	0	10	64	
20	2562.76	150,960	1,205	1,957	0	19	958	0	10	197	
21	2561.70	149,695	-1,265	2,063	1,394	19	4,460	0	10	-271	
22	2561.28	149,196	-499	1,100	1,408	19	2,928	0	10	-88	
23	2560.63	148,425	-771	1,373	1,411	20	3,493	0	10	-72	
24	2560.55	148,330	-95	2,237	1,415	20	3,777	0	10	20	
25	2560.54	148,319	-11	1,792	1,426	21	3,307	0	10	67	
26	2560.09	147,787	-532	0	1,496	27	1,938	0	10	-107	
27	2559.25	146,797	-990	737	0	27	1,827	0	10	83	
28	2560.06	147,751	954	2,197	1,500	26	2,846	0	10	87	
29	2559.76	147,397	-354	2,097	1,522	76	3,952	0	9	-88	
30	2559.02	146,526	-871	1,778	1,508	343	4,572	1	9	82	
31	2559.00	146,503	-23	2,389	1,496	102	3,860	0	9	-141	
<b>TOTAL</b>				<b>-11,201</b>	<b>58,599</b>	<b>36,484</b>	<b>1,017</b>	<b>106,604</b>	<b>1</b>	<b>307</b>	<b>-389</b>

**Table 26. Elderberry Forebay****Daily Operation**

(in acre-feet except as noted)

Capacity: 32,746 ac-ft

**October 1996**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) Gains (+)	
				Castaic Powerplant Generation	Natural	Castaic Powerplant Pumpback	To Castaic Lake			
							Natural	Project		
Sep 30	1516.89	21,934								
1	1519.88	23,189	1,255	3,922	0	963	0	1,705	1	
2	1517.70	22,271	-918	4,373	0	1,307	0	3,984	0	
3	1520.66	23,523	1,252	4,394	0	1,213	0	1,928	-1	
4	1520.61	23,502	-21	4,188	0	1,821	0	2,389	1	
5	1524.84	25,345	1,843	3,789	0	1,964	0	0	18	
6	1518.70	22,690	-2,655	864	0	3,403	0	0	-116	
7	1525.33	25,563	2,873	5,288	0	2,598	0	0	183	
8	1523.06	24,562	-1,001	3,696	0	1,727	0	2,970	0	
9	1518.57	22,636	-1,926	3,514	0	2,633	0	2,807	0	
10	1522.32	24,239	1,603	4,291	0	2,754	0	0	66	
11	1517.98	22,388	-1,851	4,953	0	2,742	0	4,063	1	
12	1514.88	21,112	-1,276	577	0	1,742	0	0	-111	
13	1510.08	19,214	-1,898	1,237	0	1,144	0	1,994	3	
14	1516.05	21,588	2,374	3,829	0	1,380	0	0	-75	
15	1516.96	21,964	376	4,396	0	2,129	0	1,891	0	
16	1517.39	22,142	178	5,010	0	2,122	0	2,710	0	
17	1517.43	22,158	16	4,493	0	2,715	0	1,761	-1	
18	1518.51	22,610	452	5,124	0	2,953	0	1,720	1	
19	1516.26	21,675	-935	748	0	1,569	0	0	-114	
20	1513.37	20,504	-1,171	958	0	1,957	0	0	-172	
21	1519.22	22,909	2,405	4,460	0	2,063	0	0	8	
22	1523.60	24,798	1,889	2,928	0	1,100	0	0	61	
23	1521.68	23,962	-836	3,493	0	1,373	0	2,956	0	
24	1518.20	22,480	-1,482	3,777	0	2,237	0	3,023	1	
25	1514.60	20,998	-1,482	3,307	0	1,792	0	2,995	-2	
26	1519.15	22,880	1,882	1,938	0	0	0	0	-56	
27	1521.42	23,849	969	1,827	0	737	0	0	-121	
28	1522.82	24,457	608	2,846	0	2,197	0	0	-41	
29	1520.58	23,488	-969	3,952	0	2,097	0	2,823	-1	
30	1518.89	22,770	-718	4,572	39	1,778	39	3,473	-39	
31	1520.51	23,458	688	3,860	2	2,389	2	781	-2	
TOTAL				1,524	106,604	41	58,599	41	45,973	-508

**Table 27. Castaic Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

**October 1996**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow		Computed Losses (-) Gains (+)	
				From Elderberry Forebay		Natural	Deliveries		
				Natural	Project				
Sep 30	1496.72	284,346							
1	1496.92	284,760	414	0	1,705	0	1,320	0 29	
2	1498.11	287,233	2,473	0	3,984	0	1,421	0 -90	
3	1498.36	287,754	521	0	1,928	0	1,447	0 40	
4	1498.77	288,610	856	0	2,389	0	1,468	0 -65	
5	1498.05	287,108	-1,502	0	0	0	1,468	0 -34	
6	1497.49	285,943	-1,165	0	0	0	1,315	0 150	
7	1496.65	284,201	-1,742	0	0	0	1,460	0 -282	
8	1497.32	285,590	1,389	0	2,970	0	1,537	0 -44	
9	1497.89	286,775	1,185	0	2,807	0	1,481	0 -141	
10	1497.17	285,278	-1,497	0	0	0	1,431	0 -66	
11	1498.45	287,942	2,664	0	4,063	0	1,408	0 9	
12	1497.73	286,442	-1,500	0	0	0	1,431	0 -69	
13	1497.94	286,879	437	0	1,994	0	1,377	0 -180	
14	1497.25	285,444	-1,435	0	0	0	1,388	0 -47	
15	1497.45	285,586	142	0	1,891	0	1,388	0 -361	
16	1497.96	286,920	1,334	0	2,710	0	1,467	0 91	
17	1497.97	286,941	21	0	1,761	0	1,360	0 -380	
18	1498.13	287,274	333	0	1,720	0	1,369	0 -18	
19	1497.52	286,005	-1,269	0	0	0	1,241	0 -28	
20	1496.86	284,636	-1,369	0	0	0	1,219	0 -150	
21	1496.24	283,352	-1,284	0	0	0	1,317	0 33	
22	1495.52	281,867	-1,485	0	0	0	1,425	0 -60	
23	1496.24	283,352	1,485	0	2,956	0	1,220	0 -251	
24	1496.96	284,843	1,491	0	3,023	0	1,330	0 -202	
25	1497.69	286,359	1,516	0	2,995	0	1,323	0 -156	
26	1497.08	285,092	-1,267	0	0	0	1,304	0 37	
27	1496.48	283,849	-1,243	0	0	2	1,240	0 -5	
28	1495.81	282,465	-1,384	0	0	2	1,320	0 -66	
29	1496.56	284,014	1,549	0	2,823	2	1,304	0 28	
30	1497.84	286,671	2,657	39	3,473	3	1,160	1 303	
31	1497.76	286,504	-167	2	781	3	979	0 26	
TOTAL			2,158	41	45,973	12	41,918	1 -1,949	

**Table 28. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

**October 1996**

Reach No.	Operating Pool		Turnout	Total Diver-sions	Deliveries					
	Beginning and Ending				Entitle-ment	Rec.	1995 CA - OV Ent.	Local In	14 B M & I	
	No.	Structure	Mile							
29A	42	Oso Pumping Plant	1.49		38,526					
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved					
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub					
		Warne Power Plant	14.07		36,484					
29H	W3	Pyramid Lake		Calif. State Park Pyramid Recreation	0					
		Pyramid Dam	17.10	Piru Creek Fish Enhancement	0					
29J	W4	Castaic Power Plant	25.82		106,604					
		Elderberry Forebay								
		Elderberry Forebay Dam	28.12							
30 1/	W5	Castaic Lake		Calif. State Park Castaic Lake Recreation	37					
		Dam	31.47							
		Castaic Lake Outlet	31.55	MWD - 78"	0					
				MWD - 132"	39,851					
				CLWA - 1T	1,841					
				Castaic Lake Water Agency	189					
				Ventura County Flood Control District	Stub					
				L.A. Co. Parks & Recreation	0					
				Releases to Lagoon	1					
				Reach 30 Subtotal:	41,918	41,881	37	0	0	
		Castaic Lagoon		Recreation to Lagoon	114		114			
		Castaic Lagoon Outlet	31.87		0					

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

**Table 29. Silverwood Lake**

Daily Operation  
(in acre-feet except as noted)

Capacity: 74,970 ac-ft

**October 1996**

Date	Water Surface Elev. (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-)	Las Flores Ranch Exchange	
				Mojave Siphon Power-plant	Project	Natural Stream Inflow	Delivered to CLAWA	Rec.	San Bernardino Tunnel	Del. To Mojave W.A.	To Mojave River			
Sep 30	3312.74	39,724												
1	3311.63	38,956	-768	0	171	0	5	0	919	0	0	-15	0	
2	3312.68	39,682	726	1,042	133	0	5	0	545	0	0	101	0	
3	3312.30	39,418	-264	250	0	0	6	1	525	0	0	18	0	
4	3312.46	39,529	111	515	0	0	5	0	515	0	0	116	0	
5	3312.67	39,675	146	600	0	0	6	0	510	0	1	63	0	
6	3312.68	39,682	7	419	0	0	5	1	519	0	0	113	0	
7	3312.58	39,613	-69	395	0	0	5	0	521	0	0	62	0	
8	3312.73	39,717	104	595	0	0	5	0	558	0	0	72	0	
9	3312.26	39,391	-326	233	0	0	4	0	565	0	0	10	0	
10	3312.48	39,543	152	594	0	0	5	1	525	0	1	90	0	
11	3312.76	39,738	195	595	0	0	5	0	509	0	0	114	0	
12	3312.92	39,849	111	523	0	0	4	0	486	0	0	78	0	
13	3312.87	39,814	-35	479	0	0	5	0	502	0	0	-7	0	
14	3312.94	39,863	49	484	18	0	4	1	473	0	0	25	0	
15	3312.73	39,717	-146	326	0	0	5	0	485	0	1	19	0	
16	3312.56	39,694	-23	330	0	0	4	0	486	0	0	137	0	
17	3312.36	39,460	-234	335	0	0	0	0	474	0	0	-95	0	
18	3312.20	39,349	-111	328	0	0	0	1	473	0	0	35	0	
19	3311.90	39,142	-207	327	0	0	5	0	471	0	0	-58	0	
20	3311.75	39,039	-103	331	0	0	4	0	475	0	1	46	0	
21	3311.56	38,908	-131	336	0	0	5	0	485	0	0	23	0	
22	3311.25	38,695	-213	0	0	0	4	1	191	0	0	-17	0	
23	3310.82	38,401	-294	105	0	0	4	0	363	0	0	-32	0	
24	3310.89	38,449	48	180	0	0	4	0	203	0	0	75	0	
25	3310.80	38,387	-62	129	0	0	4	0	150	0	1	-36	0	
26	3310.83	38,408	21	0	83	0	5	1	63	0	0	7	0	
27	3310.74	38,346	-62	0	134	0	4	0	159	0	0	-33	0	
28	3310.42	38,128	-218	0	0	0	4	0	195	0	0	-19	0	
29	3309.34	37,398	-730	0	0	0	5	0	758	0	0	33	0	
30	3308.63	36,917	-481	0	0	7	5	1	547	0	0	65	0	
31	3308.04	36,525	-392	0	0	1	4	0	393	0	0	4	0	
<b>TOTAL</b>				-3,199	9,451	539	8	135	8	14,043	0	5	994	0

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

**Table 30. Lake Perris**

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

**October 1996**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow	Computed Losses (-) Gains (+) 1/
Sep 30	1587.79	126,361				
1	1588.02	126,887	526		12	
2	1588.04	126,933	46		12	
3	1588.09	127,048	115		11	
4	1588.12	127,117	69		12	
5	1588.19	127,227	110		13	
6	1588.24	127,392	165		13	
7	1588.32	127,575	183		13	
8	1588.32	127,575	0		13	
9	1587.76	126,292	-1,283		13	
10	1587.76	126,292	0		12	
11	1587.73	126,223	-69		12	
12	1587.73	126,223	0		13	
13	1587.71	126,177	-46		13	
14	1587.69	126,132	-45		13	
15	1587.67	126,086	-46		12	
16	1587.67	126,086	0		12	
17	1587.62	125,972	-114		12	
18	1587.62	125,972	0		12	
19	1587.61	125,949	-23		13	
20	1587.57	125,857	-92		12	
21	1587.52	125,743	-114		13	
22	1587.50	125,697	-46		12	
23	1587.38	125,423	-274		13	
24	1587.29	125,217	-206		13	
25	1587.17	124,944	-273		12	
26	1587.04	124,647	-297		14	
27	1586.96	124,465	-182		13	
28	1586.86	124,237	-228		13	
29	1586.80	124,101	-136		13	
30	1586.82	124,146	45		12	
31	1586.86	124,237	91		12	
<b>TOTAL</b>			<b>-2,124</b>	<b>690</b>	<b>388</b>	<b>-2,426</b>

1/ Readings are not taken on a daily basis. End of month only.

**Table 31a. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

**October 1996**

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries					
	Beginning and Ending				Entitlement	Rec.	Transfer 1/	Purchase Pool A	Local Out	
	No.	Structure	Mile							
17E	40	Edmonston Pumping Plant	293.45		50,328					
	41		298.65	Kern County Water Agency Tej.-Cas	Stub					
17F		Check No. 41	303.41							
18A	42	Check No. 42	304.99							
19	43	Alamo Powerplant	305.73	(includes 416 AF through Cottonwood Chutes)	11,559					
		Check No. 43	309.70							
	44		311.84	LADWP Connection	0	4				
			313.50	AVEK 245th Street West	4					
	45	Check No. 44	314.81							
	46		314.93	AVEK 235th Street West	44					
			315.57	Avek 225th Street West	0					
	47	Check No. 45	319.74							
	48		323.19	Antelope Valley-East Kern WA Fairmont	1,301					
		Check No. 46	323.84							
				Reach 19 Total:	1,349	1,349	0	0	0	
20A	49	Check No. 47	326.77							
	50		326.91	Antelope Valley-East Kern WA Willow Springs Siphon	59	59				
			329.65	Antelope Valley-East Kern WA 120th Street West	Re-moved					
		Check No. 48	330.82							
	51	Check No. 49	335.93							
20B	52		336.73	AVEK WA - Quartz hill (Wheeled for Palmdale WD)	27	27				
				Antelope Valley-East Kern WA	2,153	2,070	83			
		Check No. 50	341.51							
	53	Check No. 51	342.07							
	54			Antelope Valley-East Kern WA 30th Street West	Not in Use					
21	55		342.80							
	56	Check No. 52	343.74							
	57		346.98	PWD Palmdale	310	310				
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant	0					
22A	58	Check No. 53	348.17							
	59	Check No. 54	350.25							
22B	60	Check No. 55	352.70							
	61	Check No. 56	354.76							
			354.97	Littlerock Creek I.D.	61					
		Check No. 57	356.93							
			357.72	Antelope Valley-East Kern WA 96th Street East	43	43				
			359.82	Antelope Valley-East Kern WA East Side Treatment Plant	365	365				

1/ Transferred from Mojave Water Agency to A.V.E.K.

**Table 31b. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

**October 1996**

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries					
	Beginning and Ending				Entitlement	Recreation	Transfer	Purchase Pool A	Local Out	
	No.	Structure	Mile							
22B	58	Pearblossom Pumping Plant	360.61		9,025					
	59	Check No. 59	366.09							
	60	Check No. 60	373.94							
	61	Check No. 61	379.00							
	62	Check No. 62	384.26							
	63	Check No. 63	389.50							
	64	Check No. 64	395.10							
	65	Check No. 65	400.32							
	66		401.10	Mojave Water Agency						
				Morongo 24" and 42"	507	507				
				Mojave Water Agency Hesperia	0					
23	Check No. 66	403.41								
	Mojave Siphon	405.48		Las Flores Ranch	0					
	Mojave Siphon Powerplant	405.65			9,451					
24	Silverwood Lake	407.65		Crestline Lake Arrowhead Water Agency	135	135				
				Calif. State Park Silverwood Agency (Rec.)	8		8			
25	San Bernardino Tunnel	411.46			14,043					
				San Gorgonio Pass Water Agency	0					
26A	Devil Canyon Powerplant	412.73			14,043					
	Devil Canyon Afterbay Control Structures	412.88		MWD-SC Rialto	6,731	6,731				
				Desert Water Agency (MWD Wheeling Exchange)	0					
				San Gabriel Valley Water District	51	51				
				Coachella Valley W.D. (MWD Wheeling Exchange)	0					
				San Bernardino Valley Metropolitan Water District	1,661	1,661				
				MWD (SBVMWD Exchange)	0					
28G	Santa Ana Valley Pipeline	425.46								
28H		433.06		MWD-SC Box Springs	5,543	5,543				
		440.05		MWD-SC Perris Bypass Pipeline	0					
28J	Lake Perris	442.00		MWD-SC 18"	345	345				
		443.44		MWD-SC 54"	0					
				MWD-SC 78"	0					
				Calif. State Park Lake Perris Recreation	43		43			
				MWD Total:	52,470	52,470	0	0	0	

**Table 32. Water Quality At Selected SWP Locations**

**October 1996**

Constituent	Units	Thermalito	North Bay	Harvey	Delta	Governor Edmund G. Brown California Aqueduct				Devil Canyon Afterbay Near San Bernardino
		Afterbay	Aqueduct	O. Banks	Mendota	O'Neill FB	Kettleman	Near	Tehachpi	
		At Outlet	Barker Slough	P.P.	Delta	Canal At McCabe Rd.	Outlet (Check 13)	City (Check 21)	Hwy 119 (Check 29)	
Alkalinity	mg/l	41	111	79	73	74	76	74	75	73
Arsenic	mg/l	<0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Boron	mg/l	<0.1	0.2	<0.1	<0.1	<0.1	0.1	0.1	<0.1	<0.1
Bromide	mg/l	NR	0.04	0.13	0.12	0.11	NR	NR	0.08	0.11
Calcium	mg/l	7	16	15	14	15	14	14	14	17
Carbon - Total Organic	mg/l	NR	4	3	3	3	NR	NR	3	3
Chloride	mg/l	1	18	41	40	37	32	27	26	38
Chromium	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Flouride	mg/l	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hardness	mg/l	30	94	78	72	74	72	72	68	112
Iron	mg/l	0.007	0.006	0.010	0.010	0.050	<0.005	<0.005	<0.005	0.058
Lead	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Magnesium	mg/l	3	13	10	9	9	9	9	8	9
Manganese	mg/l	<0.005	0.022	0.016	<0.005	0.008	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l	0.02	0.15	0.43	NR	NR	NR	NR	0.20	0.26
Phosphorus-Ortho	mg/l	<0.01	0.08	0.07	NR	NR	NR	NR	0.06	0.09
Phosphorus-Total	mg/l	0.06	0.17	0.11	NR	NR	NR	NR	0.10	0.10
Selenium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sodium	mg/l	3	23	35	32	30	27	24	24	32
Specific Conductance	µS/cm	75	307	324	321	321	290	269	270	315
Sulfate	mg/l	2	20	22	21	22	19	18	19	25
Total Dissolved Solids	mg/l	56	172	179	180	174	162	152	149	224
Trihalomethane Formation Potential	µg/l	NR	468	336	304	315	NR	293	282	327
Zinc	mg/l	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

**Table 33. Water Quality At Selected Delta Stations**

**October 1996**

Date	Tides		Flow In CFS			Electrical Conductivity in milliSiemens								Cl in mg/l		
	(Antioch) Daily Mean		Net Delta Outflow Index		Rio Vista	Antioch	Chippis Island		Emmaton		Jersey Point		Clifton Court	Cache Slough	Contra Costa Canal Intake	Delta Mendota Canal
	Hl	HALF	md	30dm	md	md	md	28dm	md	14dm	md	14dm	md	md	md	md
1	3.15	1.27	3992c	8081	7397	1.97	6.54	0.00	0.55	0.40	0.52	0.42	0.33	63	35	56
2	2.94	1.19	4633c	7865	8135	1.87	6.45	0.00	0.49	0.42	0.55	0.44	0.32	61	35	57
3	2.60	1.05	4461c	7654	7934	1.77	6.01	0.00	0.45	0.43	0.54	0.46	0.33	60e	33	54
4	2.45	1.02	4591c	7472	7929	1.85	6.06	0.00	0.42	0.44	0.54	0.47	0.31	53	36	43
5	2.28	0.90	4827c	7275	7679	1.84	5.81	0.00	0.37	0.44	0.53	0.48	0.31	42	37	N.R.
6	2.14	0.74	5223c	7073	7841	1.82	6.05	0.00	0.35	0.45	0.54	0.49	0.31	37	42	N.R.
7	2.14	0.69	4754c	6879	7714	1.9	6.53	0.00	0.37	0.45	0.57	0.51	0.32	34	40	45
8	2.24	0.78	4488c	6675	7308	2.25	7.52	0.00	0.47	0.45	0.62	0.52	0.33	35	37	44
9	2.58	0.99	3305c	6459	7188	2.67	8.84	0.00	0.56	0.47	0.66	0.54	0.33	34	38	45
10	2.53	0.84	3592c	6097	6909	2.97	9.43	0.00	0.71	0.48	0.72	0.56	0.33	33	37	45
11	2.46	0.88	4364c	5849	7132	2.38	8.35	0.00	0.65	0.49	0.70	0.57	0.34	32e	38	49
12	2.55	0.89	5308c	5598	7121	3.13	9.49	0.00	N.R.	0.50	N.R.	0.58	0.34	N.R.	34	N.R.
13	2.73	0.90	4910s	5464	6626	3.1	8.51	0.00	0.96	0.53	0.77	0.60	0.34	N.R.	36	53
14	2.67	0.75	4663s	5324	6733	2.81	8.59	0.00	0.88	0.56	0.74	0.62	0.36	N.R.	35	56
15	2.86	0.78	4768s	5216	6284	2.97	8.65	0.00	1.02	0.59	0.77	0.64	0.38	N.R.	36	56
16	2.78	0.83	4228s	5095	5861	3.10	8.72	0.00	0.89	0.62	0.79	0.65	0.37	24	34	50
17	2.80	0.83	3808s	4948	5806	3.14	9.07	0.00	1.05	0.67	0.81	0.67	0.36	24	36	49
18	2.99	1.05	3821s	4826	5654	3.79	10.23	0.00	1.38	0.74	0.91	0.70	0.37	28e	43	49
19	2.66	1.01	3629s	4712	5292	3.83	10.23	0.00	1.19	0.81	0.88	0.73	0.37	N.R.	60	49
20	2.18	0.63	4199s	4637	5824	3.22	9.23	0.00	0.78	0.84	0.78	0.75	0.37	N.R.	60	51
21	N.R.	N.R.	4662s	4589	5753	N.R.	N.R.	0.00	0.82	0.87	0.75	0.76	0.36	N.R.	57	50
22	N.R.	N.R.	3617s	4499	5548	N.R.	N.R.	0.00	0.94	0.91	0.78	0.77	0.38	22	55	48
23	2.60	0.85	5128s	4467	5790	3.52	9.40	0.00	1.35e	0.97	0.93e	0.79	0.38	21e	62	50e
24	2.41	1.04	3781s	4419	5805	3.84	10.84	0.00	N.R.	0.99	N.R.	0.80	0.36	N.R.	56	N.R.
25	3.00	1.04	3693s	4376	5814	4.36	11.46	0.00	1.70	1.08	1.09	0.83	0.36	21	51	48
26	2.37	0.69	5019s	4408	6132	3.33	9.81	0.00	0.85	1.06	0.97	0.84	0.36	N.R.	49	48
27	N.R.	N.R.	6120s	4418	6461	N.R.	N.R.	0.00	0.88	1.06	0.94	0.86	0.37	N.R.	53	52
28	3.24	0.96	4488s	4441	5760	3.94	10.54	0.00	1.62	1.11	1.08	0.88	0.36	N.R.	50	51
29	3.24	1.24	3029s	4375	5492	4.75	11.3	0.00	2.16	1.20	1.20	0.92	0.36	19	53	51
30	3.07	1.16	11129r	4382	8245	4.61	11.02	0.00	1.77	1.27	1.16	0.94	0.36	17	61	52
31	2.48	0.96	13396r	4396	9572	4.23	10.21	0.00	1.49	1.30	1.07	0.96	0.37	N.R.	60	N.R.

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record

c = Excess Delta conditions.

s = Balanced water conditions with storage withdrawals.

b = Balanced water conditions with no storage withdrawals.

f = Excess Delta conditions with fish concerns.

**Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In The SWP 1/**

**October 1996**

Sampling Location	Sample Date	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	September 18, 1996	None Detected	
California Aqueduct At Harvey O. Banks Delta Pumping Plant	September 18, 1996	2,4, -D	0.33
Delta Mendota Canal At McCabe Road	September 18, 1996	2,4, -D	0.29
California Aqueduct Near Kettleman City (Check 21)	September 18, 1996	Simazine 2,4, -D	0.13 0.15
California Aqueduct At Tehachapi Afterbay (Check 41)	September 18, 1996	Simazine 2,4, -D	0.02 0.33
Devil Canyon Power Plant At Entrance To Santa Ana Pipeline	September 18, 1996	Simazine 2,4, -D	0.05 0.15

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

**Table 35. Oroville and Delta Field Divisions Energy Data**

(in kWh)

**October 1996**

Date	Oroville Thermalito Complex		Barker Slough Load	Cordelia Load	Banks Total Load	Banks SWP Load	South Bay Load	Del Valle Load
	Generation	Load						
1	2,005,056	8,064	15,631	29,260	3,696,768	3,696,768	152,860	200
2	3,169,152	4,896	15,547	23,149	3,685,536	3,685,536	143,280	198
3	2,843,136	6,336	16,289	20,699	3,687,264	3,687,264	151,320	195
4	3,472,704	4,608	19,901	31,367	3,337,056	3,337,056	164,550	217
5	3,830,976	4,320	15,162	24,430	3,704,832	3,704,832	157,330	235
6	3,526,272	4,896	16,842	21,665	3,700,512	3,700,512	139,210	260
7	3,804,480	4,608	15,575	21,364	3,465,792	3,465,792	164,580	320
8	4,019,328	6,912	16,303	20,615	3,691,008	3,691,008	167,640	299
9	3,263,328	6,048	17,556	22,820	3,705,696	3,705,696	157,280	287
10	3,505,824	4,896	16,562	23,338	3,332,736	3,332,736	138,070	278
11	3,936,096	5,184	11,760	18,207	2,862,144	2,862,144	145,800	246
12	4,285,440	4,608	11,788	18,683	2,805,408	2,805,408	144,700	233
13	4,363,776	6,048	12,908	17,493	3,124,800	1,948,800	144,800	226
14	4,386,528	3,744	14,616	21,721	3,009,312	2,061,312	139,310	225
15	4,159,296	5,184	12,719	19,887	2,840,544	1,892,544	140,910	4,315
16	4,805,568	3,456	11,410	19,810	3,259,296	2,074,296	126,900	6,686
17	4,775,616	576	11,039	20,426	3,360,672	2,029,672	162,850	8,541
18	4,298,112	5,472	10,486	19,243	3,043,008	1,712,008	157,010	10,132
19	4,354,560	5,760	9,996	18,529	2,864,160	1,542,160	153,690	9,793
20	4,135,104	7,776	9,660	17,717	2,842,272	2,842,272	161,480	9,539
21	4,198,464	6,624	11,193	21,805	2,847,168	1,511,168	164,980	9,853
22	4,148,064	1,152	17,045	36,813	2,700,000	1,342,000	136,440	7,542
23	4,336,416	0	17,213	35,462	2,276,352	1,329,352	129,630	5,796
24	4,349,376	0	14,385	30,275	2,867,904	1,521,904	99,270	5,769
25	4,252,608	288	13,881	29,225	2,585,664	1,227,664	67,410	6,064
26	4,306,464	4,320	12,733	27,440	2,473,920	1,127,920	64,770	6,119
27	4,245,408	4,608	16,828	36,302	2,478,240	1,162,240	68,340	7,088
28	3,989,088	4,896	16,261	35,525	2,492,064	1,134,064	64,660	7,166
29	3,701,376	5,760	14,490	29,960	2,817,792	1,459,792	55,160	7,281
30	3,741,408	5,760	9,240	18,599	2,933,568	1,575,568	48,520	4,164
31	4,070,304	4,896	11,599	23,583	3,191,616	1,833,616	68,530	5,053
Total	122,279,328	141,696	436,618	755,412	95,683,104	73,003,104	3,981,280	124,320

**Table 36. San Luis Field Division Energy Data**

(in kWh)

**October 1996**

Date	Dos Amigos Pumping Plant		William R. Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,009,872	937,872	0	0	1,701,216	1,206,216
2	896,688	824,688	0	0	2,133,792	2,133,792
3	947,232	875,232	230,688	230,688	2,755,584	2,412,584
4	976,752	904,752	0	0	2,559,168	1,677,168
5	936,576	864,576	0	0	2,359,584	1,477,584
6	824,112	752,112	0	0	2,317,824	1,974,824
7	722,160	650,160	0	0	2,359,872	1,673,872
8	772,128	610,128	499,392	499,392	1,754,784	1,754,784
9	751,680	589,680	0	0	3,236,544	2,804,544
10	853,632	691,632	180,000	180,000	3,552,192	3,120,192
11	858,096	696,096	358,848	358,848	2,366,208	1,544,208
12	854,352	692,352	0	0	1,845,216	1,263,216
13	701,712	539,712	0	0	3,536,064	1,088,064
14	763,200	601,200	0	0	1,143,072	21,072
15	371,952	263,952	510,336	510,336	2,798,784	1,418,784
16	897,984	807,984	0	0	3,674,304	1,930,304
17	821,952	731,952	0	0	2,886,912	576,912
18	693,504	603,504	0	0	2,757,312	447,312
19	746,352	602,352	0	0	2,513,664	11,664
20	785,088	641,088	0	0	4,258,944	994,944
21	666,432	522,432	0	0	2,391,840	81,840
22	716,112	572,112	0	0	2,188,512	130,512
23	632,448	488,448	0	0	2,987,712	341,712
24	692,928	548,928	0	0	2,087,712	29,712
25	675,360	531,360	0	0	2,646,432	-19,568
26	581,760	437,760	0	0	2,863,872	394,872
27	480,096	320,096	0	0	4,819,392	-30,608
28	417,744	273,744	0	0	2,429,568	85,568
29	554,976	410,976	0	0	2,932,704	1,132,704
30	437,760	293,760	0	0	3,978,720	786,720
31	365,184	221,184	0	0	3,584,160	1,254,160
Total	22,405,824	18,501,824	1,779,264	1,779,264	85,421,664	33,719,664

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

**Table 37. San Joaquin Field Division Energy Data**

(in kWh)

**October 1996**

Date	Las Perillas Load	Badger Hill Load	Buena Vista Load	John R. Teerink Load	Ira J. Chrisman Load	A.D. Edmonston Load
1	24,474	63,344	849,168	867,312	1,963,584	6,963,840
2	26,604	72,264	714,600	739,080	1,645,056	5,716,080
3	25,254	69,440	579,168	647,496	1,440,288	5,130,000
4	29,622	82,400	747,072	713,664	1,551,168	5,301,360
5	27,140	71,856	623,376	688,032	1,486,368	4,990,320
6	23,166	62,400	418,464	427,032	929,088	3,417,840
7	25,680	66,288	339,192	411,840	867,168	2,946,240
8	23,958	65,832	424,656	409,176	850,464	3,134,160
9	21,200	56,088	375,048	398,448	876,960	2,832,480
10	21,496	60,832	569,448	565,416	1,229,184	4,341,600
11	21,862	62,648	609,840	621,432	1,325,952	4,715,280
12	19,482	48,400	584,496	623,736	1,348,128	4,469,760
13	14,026	38,912	492,696	548,424	1,240,704	4,423,680
14	19,780	51,608	385,344	402,840	879,840	3,065,760
15	25,268	67,928	273,240	263,088	551,808	1,842,480
16	22,468	58,080	349,632	319,896	673,056	2,583,360
17	22,738	61,096	486,432	511,416	1,168,128	3,669,840
18	20,622	53,672	360,288	346,608	754,272	2,580,480
19	16,052	42,904	411,120	418,392	925,056	3,378,240
20	9,922	25,256	369,504	388,728	858,240	2,963,520
21	16,316	42,776	326,808	375,552	887,328	3,253,680
22	9,746	25,776	390,240	421,416	946,080	3,440,880
23	5,170	11,632	415,800	438,192	955,296	3,440,880
24	10,956	26,904	415,512	428,616	967,680	3,409,200
25	11,636	33,328	519,624	478,584	1,064,736	3,438,720
26	11,140	30,872	337,320	401,400	854,496	3,087,360
27	9,526	24,608	229,824	241,992	517,824	1,754,640
28	19,310	49,376	233,640	264,960	621,216	2,232,720
29	21,448	56,208	418,464	432,072	968,256	3,443,040
30	3,342	6,744	407,880	421,704	975,456	3,442,320
31	1,050	1,216	384,120	432,432	972,000	3,440,160
TOTAL	560,454	1,490,688	14,042,016	14,648,976	32,294,880	112,849,920

**Table 38. Southern Field Division Energy Data**

(in kWh)

**October 1996**

Date	West Branch			East Branch			
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Generation	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Mojave Siphon Powerplant Generation	Devil Canyon Powerplant Generation
1	676,256	983,448	1,320,000	64,512	269,220	7,434	1,136,640
2	365,680	983,232	1,320,000	135,576	714,504	111,741	663,168
3	444,192	982,656	1,320,000	73,080	276,060	21,441	639,072
4	446,376	983,160	1,320,000	76,552	336,864	45,129	620,640
5	396,760	982,800	1,320,000	53,816	432,048	53,928	619,008
6	175,952	720	1,320,000	102,172	497,292	37,716	625,824
7	144,256	451,584	1,320,000	77,252	442,320	34,377	625,824
8	197,512	424,080	1,320,000	75,404	459,504	51,471	671,616
9	221,928	654,264	816,000	47,964	294,756	20,286	679,392
10	322,560	985,896	816,000	76,944	401,340	54,138	632,160
11	351,848	983,232	816,000	90,804	435,864	54,348	609,504
12	277,256	288	816,000	116,536	559,776	39,585	582,336
13	79,688	144	816,000	194,432	941,916	23,100	610,464
14	256,256	889,488	1,200,000	38,976	254,016	49,077	567,840
15	192,920	892,872	1,200,000	14,140	52,560	29,169	581,472
16	284,144	860,544	1,200,000	0	74,664	28,266	583,008
17	422,408	906,984	1,200,000	0	3,120	31,227	573,792
18	301,224	908,784	1,200,000	0	0	29,883	574,848
19	396,368	906,984	1,200,000	0	0	29,484	569,568
20	348,096	216	1,200,000	0	0	27,573	573,120
21	382,536	886,824	1,200,000	0	0	31,416	589,152
22	402,584	889,560	1,200,000	0	0	0	205,248
23	411,824	888,984	1,200,000	0	0	8,295	428,448
24	396,536	895,392	1,200,000	0	0	13,881	225,696
25	400,512	900,360	1,200,000	0	0	9,765	165,792
26	360,640	950,400	1,200,000	0	3,876	0	64,512
27	202,216	576	1,250,000	0	12,408	0	179,328
28	265,720	947,304	1,080,000	0	13,236	0	230,016
29	399,616	960,840	1,080,000	0	15,240	0	912,672
30	407,008	961,200	1,080,000	0	16,236	0	650,688
31	404,320	959,040	1,080,000	0	16,416	0	468,672
Total	10,335,192	23,021,856	35,810,000	1,238,160	6,523,236	842,730	16,859,520